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Nickel Supply Increase Aim in New US Moves

Two major actions looking toward expanding sources of nickel for American industry were taken last week by the government. They were:—

1. The Office of Defense Mobilization announced that it had issued a certificate to Nicaro Nickel Company, subsidiary of Freeport Sulphur Company, covering an investment of $55,250,000 in new facilities for its nickel and cobalt mining operations in Cuba and the building of a processing plant near New Orleans, La. The company was allowed to write off 80 percent of the cost at an accelerated rate.

2. General Services Administration announced that $43,000,000 has been made available to National Lead Company to expand the government's nickel plant at Nicaro, Cuba, by 75 percent, now being operated by Nickel Processing Corporation, subsidiary of National Lead.

Freeport Sulphur Project

The Freeport Sulphur project has been under discussion between the company and GSA for some weeks and negotiations are now under way looking to the construction of a pilot plant in this country to test the company's new chemical process for extraction of nickel and cobalt from the ores. The company has been seeking a purchase contract from the government agency, but GSA officials said that it wants to see the new chemical process of extraction proven before entering into such an arrangement.

The expansion program for the government's nickel plant at Nicaro was ordered by the Office of Defense Mobilization, according to GSA. Completely rehabilitated at the order of the Munitions Board of the Department of Defense in 1950, the plant turned out in 1953 about 28,000,000 pounds of nickel and, in the fourth quarter, the equivalent of an annual rate of 29,500,000 pounds.

GSA Administrator's Comment

In announcing the assignment of the task to National Lead, Edmund F. Mansure, head of GSA, had the following comment:—

"By virtue of its major interest in the Nickel Processing Corporation, National Lead has a basic reason for seeing to it that the best possible job is carried out as rapidly as possible in engineering, in design, and in construction. National Lead will coordinate the expansion with concurrent operations, will strive for maximum production while the enlargement is under way, and will place the plant on its expanded base as early as possible with a view to the efficient operation of the larger facility."

National Lead will employ subcontractors for various phases of the work—engineering plans, specifications and de-

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Cyanamid's Bid Is Best For US Ammonia Plant

Reporting that the bid of American Cyanamid Company, New York, was the best offer received for the ammonia producing unit of the Missouri Ordnance Works at Louisiana, Mo., the Department of Defense indicated last week that negotiations are now under way to lease the facilities to that firm.

Cyanamid offered the government a rental of $13.23 on each ton of ammonia produced, or a minimum rental of $343,980 a year. Under maximum operating conditions, the rental could exceed $500,000 annually. Cyanamid's offer calls for a six-year lease on the plant, with two six-year renewal options and the right to purchase the plant outright at any time within the first three years at a price of about $3,325,000. The plant, built in 1941, has a maximum capacity of 105 tons of ammonia daily.

British Token Import Plan Procedures Are Drawn Up

Proposed new regulations and procedures for operation of the British Token Import Plan in 1954 were announced last week by the Bureau of Foreign Commerce. The new regulations are expected to go into effect about March 1.

The British Token Import Plan, established with the United States in 1946, enables eligible US manufacturers or their agents to export to the United Kingdom token shipments of specified commodities whose importation from dollar sources is generally prohibited by the British government.

As announced December 30 (OPD, 1/4/54), eligible participants will be permitted to make shipments under the plan during 1954 in an amount not exceeding 30 percent of the individual firm's average annual shipments of specified commodities to the United Kingdom during the base period, 1936, 1937 and 1938.

Under the new proposed regulations, the basic principle of the plan would be maintained. However, changes would be made in the procedure for certification of eligibility and the conditions upon which quotas would be allotted. Also, under certain conditions, manufacturers having no prewar trade in the British market would be permitted, for the first time, to participate in the plan after June 30. Previously, only firms having prewar trade with the United Kingdom were eligible.

Formaldehyde, Glycerin, Nitrogen Among 8 Goals Reopened by US

Production expansion goals for eight chemicals were reopened last week by the Office of Defense Mobilization. At the same time the agency closed out the expansion programs for eight other chemicals, and announced that the program for hydrofluoric acid and photographic film and paper will be continued under suspension, pending further study.

In a third action, ODM announced an increase in the nitrogen production goal to an annual capacity of 3,500,000 short tons of contained nitrogen, to be reached by January 1, 1947, and thereby opened the way for consideration to be given to pending application for tax amortization certificates covering proposed new nitrogen facilities.

The eight chemicals whose production expansion program has been reopened are:— Formaldehyde, glycerin, lithium compounds, medical supplies and equipment, nitrogen, pentaerythritol, synthetic methanol, and toluene.

Chemical Goals Closed Out

The eight chemicals whose production expansion programs have been closed out are:—Benzene, elemental phosphorus, hexamenthyleneteramine, hydrogen peroxide, penicillin, sodium bichromate, sodium chlorate and sulphuric acid.

The actions just taken by the agency were the second step in the announced program of studying mobilization supply and requirements data and reviewing expansion goals within which tax amortization certifications may be issued by ODM. The first such step was taken December 3, 1953, when ODM closed out 120 expansion goals, continued sixty-eight on an open basis, and suspended forty-nine others, pending a study just now completed. As the review of all goals continues, additional announcements will be made from time to time.

ODM said that because of the daily changes in the fulfilment of certain expansion goals and the limitation applicable to each, applicants for tax amortization benefits should discuss proposed expansion projects with the responsible agency in advance of filing an application in order to determine the advisability of filing.

Certificates of Necessity

Expansion goals serve to identify and measure deficiencies in productive capacity and supply required for national defense. Certificates of necessity for tax amortization benefits are issued to encourage fulfilment of expansion goals. Under the program, a holder of a certificate is permitted to charge off for tax purposes, over a sixty-month period, that part of his investment which is determined to be in the interest of national defense.

Of the forty-nine goals under study, the agency transferred seventeen to the open list and of these, the goals for the follow-

—Continued on page 39

Natural Gas Tax of Texas Ruled Invalid by High Court

A tax imposed by Texas on the gathering of natural gas was held invalid by the Supreme Court of the United States last week on the grounds that it was an unconstitutional burden on interstate commerce. The court's decision reversed the ruling of the Texas Supreme Court in suits brought by the Michigan-Wisconsin Pipe Line Company and Panhandle Eastern Pipe Line Company.

During the two years that the controversy over the constitutionality of the state tax has existed, close to $25,000,000 has been collected by the state which, presumably, now must be refunded to some 120 pipeline companies which had been paying under protest.

The tax amounted to 0.45 cents per 1,000 cubic feet on the "taking" of residue gas at the outlets of gasoline plants for transmission out of the state. Justice Tom C. Clark, who wrote the court's opinion, noted that the tax applied after production, gathering and processing and, therefore, became a burden on the stream of commerce. But he pointed out further that the processing, on which the tax was not imposed, took place prior to the "taking" and some observers believed that the state may take this hint from the court and apply the tax at the point of processing.

In its decision, the supreme court accepted the contention of the companies that the taking of possession of the gas is an integral part of a continuous process culminating in its transport out of Texas

—Continued on page 43

Copra Output in Indonesia Up 20 Percent During 1953

Copra production in Indonesia, as measured in terms of Copra Foundation purchases, totaled 454,060 long tons in 1953, or nearly 20 percent more than the comparable 1952 output of 379,500 tons, according to a report received by the Foreign Agricultural Service from H. V. Geib, agricultural attache, American Embassy, Djakarta. The total amount produced is considerably greater than the amount purchased by the foundation, however, since data are available for only the foundation purchases and these usually are referred to as "copra production."

Copra exports by the foundation in 1953 amounted to 236,320 tons or an average of 19,693 per month. This was about 3,800 tons less than the monthly average of 1952. Netherlands was the principal importer in 1953, taking about 35 percent of the total. Western Germany took nearly 35 percent and the remainder went to Sweden, Norway, Japan and France.

CCC Debt Cancellation Measure to Eisenhower

Legislation to cancel out certain of the losses of the Commodity Credit Corporation incurred during last year's price supporting operation, was approved February 9 by the senate and house and sent to the President for his signature. Mr. Eisenhower was expected to sign the measure, H. J. Res. 358, into law, promptly.

Under terms of the resolution, notes held by the treasury in supplying funds to the CCC in the amount of $681,769,703 would be written off. Of this amount, $550,151,848 represents losses from price supporting operations and the remainder represents losses incident to the international wheat agreement and costs of foot and mouth disease operations in Mexico.

As originally proposed the legislation cancelled out $741,548,788 of CCC notes, but the senate cut it down to $245,900,917. The final figure was settled on in conference between the two houses.

Titanium Melting Goal Fixed At 37,500 Tons in 2 Years

An interim expansion goal of 37,500 short tons for titanium melting facilities capacity to be reached by 1956 was established February 10 by the Office of Defense Mobilization. Melting facilities process titanium sponge or scrap into titanium ingot.

The domestic titanium industry currently has a melting capacity of approximately 7,680 tons per year. The present four smelters are planning expansion of 4,200 tons per year, which will result in domestic output of 11,880 tons of ingots by 1956. ODM officials said that a review of the titanium industry is now being conducted and a new goal for melting facilities will be established when this study has been completed.

Fiber Exports to Russia Banned, Weeks Asserts

Secretary of Commerce Sinclair Weeks announced February 10 that it had been decided as a matter of policy to deny commercial export license applications for the export for cash of United States government-owned surplus agricultural or vegetable fiber products to Russia or her satellites.

The secretary added, however, that this ban would not preclude study of export license applications for those non-strategic products to the Soviet bloc which are acquired by exporters on the open market and not from the Commodity Credit Corporation surplus stocks.

Sulphur Offshore Leasing Rules Proposed by Interior Department

Proposed regulations to govern the issuance of leases for development of sulphur, oil and gas and other mineral resources of the continental shelf were issued last week by the Department of the Interior. Interested parties were asked to submit their comments in writing to the solicitor of the department within thirty days.

Additional regulations will be issued later by the department covering such matters as well spacing, field rules, and field and well allowables. The present tentative draft relates only to the issuance and recognition of mineral leases covering the submerged lands in the outer continental shelf.

As in the case of other mineral leases, the regulations provide for issuance of leases on competitive bidding for the highest cash bonuses. Each oil and gas or sulphur lease is to cover a compact area not exceeding 5,760 acres. Provision is also made for reserving ownership to the United States of the helium and the right to extract it from all gas produced. Similar reservations relate to uranium, thorium and other fissionable materials.

Unit plans, pooling and drilling agreements may be initiated by lessees, or be required by the secretary in the interest of conservation. Approval must be obtained for the such arrangements, however, before they can become operative. Pooling and drilling agreements may be made between lessees for the purpose of (1) utilizing a common drilling platform to develop adjacent or adjoining leases; (2) permitting operators or pipeline companies to enter into contracts involving a number of leases sufficient to justify operations on a large scale for the discovery, development, production or transportation of oil and gas, sulphur, or other minerals and to finance the same; or (3) for other purposes in the interest of conservation.

In order to avoid waste or to promote conservation of natural resources, the sec-

—Continued on page 74

Fatty Acid Production Reported Down in Dec.

Fatty acid production in December totaled 32,256,000 pounds, a decrease of 5.3 percent below the November level, according to figures released by the Association of American Soap and Glycerine Producers.

Total disposition in December was 30,438,000 pounds, which also was below the November level, by 7.9 percent. Total stocks amounted to 46,707,000 pounds, including work in progress. This was an increase from about 44,000,000 pounds over the previous month.

ODM Alters Its Rules On Tax Amortization

The Office of Defense Mobilization last week modified its regulations covering the issuance of tax amortization certificates by extending the benefits of rapid amortization of costs to plants constructed before a certificate was issued, and to plants built after an expansion goal had been closed but subsequently reopened.

The amendments were approved by President Eisenhower, February 8, but were made retroactive to December 3. They were embodied in a new regulation superseding those contained in regulation 1 of the former Defense Production Administration. The regulations contain two major changes:—

How Regulations Are Changed

One change eliminates the so-called predetermination requirement. Under this provision, certain expansions in the past were eligible for rapid tax amortization if construction had been started before a certificate was issued to the taxpayer. Purpose of the former "pre-certification" provision was to assure proper usage of available materials during a period when acute shortages existed. Because of the current favorable material supply situation, the provision is no longer considered necessary.

The second change in the regulations is designed to take care of the taxpayer who expanded a facility after an expansion goal had been closed but which subsequently was reopened. Upon the reopening of such a goal, the taxpayer will be permitted to file with ODM an application for a certificate of necessity on the expanded plant within thirty days after the goal is reopened.

Expansion goals are established by ODM in order to identify the materials and facilities in which further expansion is required to meet mobilization needs. The rapid tax write-off is offered by the government as an incentive to encourage private industry in investing capital to achieve the desired increase in capacity.

Plastics Projects Get Tax Aid

ODM, meanwhile, announced approval of tax amortization certificates for two projects in the plastics field. Olympic Plastics Company, Los Angeles, was granted a certificate covering a $125,000 expansion of facilities for production of

—Continued on page 75

Ind. Standard Absorption Of Pan American Is Near

Plans to merge Pan American Petroleum & Transport Company into Standard Oil Company (Indiana), Chicago, are near completion, officials of the two companies announced last week. Pan American is now a partly-owned subsidiary of Standard. Greater efficiency and economy in the combined operations would result, they said.

Pan American stockholders as of the close of business March 9 will be asked to vote on the merger agreement at a special meeting in New York, March 31. Standard's stockholders of record April 6 will deal with the same proposal at their annual meeting in Whiting, Ind., May 6. Standard owns approximately 78 percent of the 4,702,945 outstanding shares of Pan American common stock, the only class outstanding.

Stockholders will be asked to approve a merger providing for an exchange of stock on the basis of 0.777 of a share of Standard for each share of Pan American. If all minority stockholders of Pan American accept the offer, it would mean the issuance of 777,716 additional shares of Standard compared with 15,386,519 now issued. The Blaustein interests of Baltimore, Md., who now owns a major block of Pan American common, would become one of the large stockholders of Standard.

If the merger is approved, substantially all of Pan American's assets—including the stock of its subsidiaries—as well as its liabilities, would be transferred to the American Oil Company, principal marketing subsidiary of Pan American which operates in eighteen eastern states and the District of Columbia. This company, in turn, would be directly and wholly-owned by Standard.

DCAT to Hear UN Delegate

Ambassador Ben C. Limb, representative of Korea to the United Nations, will be the principal speaker at the twenty-eighth annual dinner of the Drug, Chemical and Allied Trades section of the New York Board of Trade to be held March 4, at the Waldorf-Astoria hotel. Col Limb's subject will be "Korea Today." Stanley I. Clark, chairman of DCAT, will preside.

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Cuban Lard, Tallow, Grease Imports Expected to Increase

Some increase is expected in the Cuban imports of both hog lard and inedible tallow and grease in the January-March quarter of this year, according to a report to the Foreign Agricultural Service from agricultural attache Guy L. Bush, Havana. The increase is not expected to be significant, however, unless prices of lard and tallow should drop to a point that would encourage the building of stocks, he said.

Imports of lard and rendered pork fat in 1953, totaling 135,200,000 pounds, were the smallest in the last four years. The quantity imported represented a decline of nearly one-fourth from the record volume in 1952 of 175,300,000 pounds.

Stocks at the close of 1952 were heavy at all distribution levels, it was stated, but they were hardly adequate to supply the retail trade at the close of 1953. Thus, while the reduction in imports was sharp last year, it did not represent a comparable reduction in consumption.

Inedible tallow and grease imports into Cuba in 1953 totaled 24,600,000 pounds, the smallest volume since 1948. In the last quarter imports came to 4,700,000 pounds, or considerably less than the 7,800,000 pounds imported in October-December, 1952. Industry representatives ascribe the reduction in tallow and grease imports to several factors, chiefly being the increased use of synthetic detergents, reduced purchasing power and the depletion of stocks.

Uranium Being Recovered By Texas City Chemicals

Texas City Chemicals, Inc., is now operating a production unit to recover uranium concentrate as a byproduct in its new phosphate products plant at Texas City, Tex. The unit is designed to recover uranium concentrates as a byproduct of feed and fertilizer grades of dicalcium phosphate from Florida phosphate rock containing minor quantities of uranium. The unit is owned and operated by Texas City Chemicals, which has a contract to supply uranium concentrate to the Atomic Energy Commission.

Soybean Support Approval Is Likely, Strayer Declares

The government's announcement that it will support 1954-crop soybeans at 80 percent of parity will meet with the general approval of soybean growers, if there are no controls on the 1954 crop, and if the 1954 soybean acreage is not used in fixing any future acreage allotments, American Soybean Association secretary George M. Strayer declared last week. The Department of Agriculture has set 1954-crop soybean support at $2.22 national average, compared with $2.56 or 90 percent of parity on the 1953 crop.

Mr. Strayer said the Soybean Association had asked Secretary of Agriculture Benson for a support price based on 80 to 85 percent of parity after sounding out producers in local grass-root meetings in Ohio, Indiana, Illinois and Arkansas last fall. "Producers in those meetings expressed themselves as being overwhelmingly opposed to any controls on the 1954 crop and willing to accept an 80-percent-of-parity support rather than a higher support coupled with acreage control," said Mr. Strayer. "They also asked that 1954 soybean acreage not be considered in fixing any future acreage allotments."

Food Machinery Names Dr. Davidson Consultant

Dr. William L. Davidson has been appointed a full time consultant to Food Machinery & Chemical Corporation, New York, Ernest Hart, executive vice-president of the chemical divisions of the corporation, announced last week.

Dr. Davidson until January 1 of this year had been director of the office of industrial development of the Atomic Energy Commission in charge of disseminating to industry AEC technical data of importance to industrial research and development. Prior to his work with AEC, Dr. Davidson had extensive technical and administrative experience in industry as director of physical research for B. F. Goodrich Company. For a year following the war he was with the Monsanto Chemical Company at its Clinton Laboratory, Oak Ridge, Tenn.

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Price Index Advances

The overall OPD price index reversed the downward trend of the previous two weeks by rising 0.10 point, to stand at 107.05. Mace, caraway seed, nutmeg, black pepper and Jamaican pepper were stronger in the botanicals drugs market. This group witnessed reductions in cassia, Ceylong cinnamon, cloves, cumin seed and red pepper. Higher in the oils, fats and waxes section were oleic and stearic acids, greases, corn and soybean oils, soybean meal, tallow and candelilla wax. Copra dropped in this market, as did cottonseed meal, cottonseed oil and carnauba wax. The agricultural chemicals market recorded no price activity.

Cardamom oil was considerably firmer among essential oils and aromatic chemicals. This was the only advance in this market, although lemongrass and citronella oils remained firm following a continued strong tone at the source. Reductions were effected in clove, ginger, dillweed and grapefruit oils, as well as in borneol. Copal, Manila and Pontianak gums moved up among protective coatings materials. There were no reductions in this group. Kerosene and fuel oil were higher, while gasoline and mineral spirits were reduced in the petroleum derivatives group.

The textile and leather chemicals group noted a reduction in egg albumen. An advance in cocoa butter was the only price change in the drugs and fine chemicals group. Quicksilver moved up among heavy chemicals. There were no reductions in this market. The coal chemicals market was without price change.

Except for seventeen changes in botanicals listed on page 57, price changes during the past week were as follows (the number in parentheses after changes indicate the pages on which the market reports will be found):—

Prices Advanced

Acid, oleic, 1c. per lb. (68).
Soybean, fatty, 1c. per lb. (68).
Stearic, 1c. per lb. (68).
Tallow, fatty, 1c. per lb. (68).
Cocoa butter, 6c. per lb. (48).
Glycerin, crude, 2c. per lb. (48).
Greases, ¼c. per lb. (68).
Gum, copal, Congo, No. 2, 1c. per lb. (63).
No. 3, 1c. per lb.
Manila, CBB, 3c. per lb.
DBB, 2c. per lb.
soft, WS, 5c. per lb.
Pontianak, nubs, 1c. per lb.
Kerosene, NY harbour, 43-44 s.g., 0.2c. per gal (42).
Penn. west., 45 s.g., 0.2c. per gal.
Oil, cardamom, $4.50 per lb. (59).
Corn, foots, 65 p.c., ¼c. per lb. (68).
Cottonseed foots, 95 p.c., ½c. per lb. (68).
Grease, ½c. per lb. (68).
Soybean, ½c. per lb. (68).
50 p.c., ¼c. per lb.
Petroleum, fuel oil, diesel, NY harbour, 0.2c. per gal. (42).
furnace, No. 2, NY harbour, 0.2c. per gal.
Quicksilver, $3 per flask (34).
Tallow, ¼c. per lb. (68).
Soybean meal, $3 per ton (68).
Vanilla beans, Mexican, whole, 25c. per lb. (57).
Tahiti, 50c. per lb. (57).
Wax, candelilla, crude, 2c. per lb. (68).
ref., 2c. per lb.
Montan, 1c. to 1½c. per lb. (68).
Ouricury, 2c. per lb. (68).

Prices Reduced

Borneol, 35c. per lb. (59).
CMC, 2c. per lb. (68).
Copra, $12.50 per ton (68).
Cottonseed meal, 50c. per ton (68).
Egg albumen, flake, 8c. per lb. (47).
Gasoline, NY harbour, 86 octane, 0.2c. per gal. (42).
natural, 26-70 octane, ½c. per gal.
Linseed meal, 50c. per ton (68).
Oil, clove, 15c. per lb.
Coconut, crude, ½c. per lb. (59).
Dillweed, 50c. per lb. (59).
Ginger, 50c. per lb. (59).
Grapefruit, 15c. per lb. (59).
Linseed, 1/5c. per lb. (68).
Soybean, crude, ¼c. per lb. (68).
ref., ¼c. per lb.
Petroleum, mineral spirits, spec., ref'd, N. J. tankwagon, 1c. per gal. (42).
Shellac, lemon, No. 1, 1c. per lb.
No. 2, 1½c. per lb.
Superfine, ½c. per lb.
Wax, carnauba, crude, No. 3, Ceara, 2c. per lb. (68).
ref., 2c. per lb.

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100—1949 average)

Feb. 11, 1954	Feb. 5, 1954	Feb. 13, 1953
107.05	106.95	107.90

Bernuth, Lembcke Sells Interest in Tar Residuals

Bernuth, Lembcke Company has sold its 50 percent stock interest in Tar Residuals, Inc., New York, to Tar Residuals, Ltd., London. By the action, Tar Residuals, Inc., becomes a wholly-owned subsidiary of Tar Residuals, Ltd. Elected by Tar Residuals, Inc., are the following:—President, N. Macintosh Williams; vice-presidents, Barry M. Williams, Denis F. Waugh, Ivor Jones and John Raben, and secretary-treasurer, R. Van Kuyk. They replace Oscar M. Bernuth, Charles M. Bernuth, Ernest P. Bernuth and George T. Fields who have resigned from Tar Residuals, Inc. The company has moved into new and larger quarters at 420 Lexington avenue, its previous address. Its new telephone number is LExington 2-9164.

TAPPI Annual Parley Slated to Begin Today

The Technical Association of the Pulp and Paper Industry has announced the features that will be of interest to the chemical trade during the thirty-ninth annual meeting of the association, which gets under way today and continues through Thursday at the Commodore hotel, New York.

At the first general session on the opening day the following papers will be presented:—"The Paper Industry in the Far East," by Roland A. Packard, of Washington, D. C.; "Fiberglas As a Papermaking Material," by Thomas S. Chambers, Owens-Corning Fiberglas Company, Newark, Ohio; "Manufacture of Board Continuously by a Dry Process," by R. S. Aries, Aries Fiberboard Corporation, New York, and "A Laboratory to Coordinate Science and Manufacturing Operations," by Reavies C. Sproul, Herty Foundation, Savannah, Ga.

Acid Pulping Session

On February 16 at a session on acid pulping, G. H. McGregor, of Minnesota & Ontario Paper Company, International Falls, Minn., will serve as moderator. The following papers will be presented:—"The Use of Bases Other Than Calcium in the Sulphite Process," by R. S. Hatch, Hudson Pulp & Paper Company, Palatka, Fla.; "Acid Sulphite Pulping Hardwoods as Well as Highly Resinous Softwoods," by G. H. McGregor; "65 Percent Yield Sulphite for Newsprint Furnish," by L. R. Beath, Price Bros. & Co., Ltd., Riverhead, Quebec; "Sulphite Pulping and as Related to Stream Problems in Eastern United States," by V. P. Edwards, Corinth, N. Y.; "Abatement of Spent Sulphite Liquor Pollution in the Pacific Northwest," by H. R. Amberg, National Council for Stream Improvement, Corvallis, Ore., and "Sulphite Pulping as Related to Stream Problems in the Midwest," by N. L. Malcove, Northern Paper Mills, Green Bay, Wis.

A session on corrugated containers the same day will hear a symposium on high humidity containers, at which the following papers will be presented:—"Starch Adhesives for Sulphur Treated Corru-

—Continued on page 67

Atlas Mineral Products Co. Appoints Seymour President

Atlas Mineral Products Company, Mertztown, Pa., has announced the appointment of Dr. Raymond B. Seymour as president. Dr. Seymour, the originator of furan cements and other products of the Atlas line, joined the firm as chief chemist in 1939. Since 1949 he has been executive vice-president and a member of the board of directors.

Dr. Seymour began his career with Goodyear Tire & Rubber Company, Akron, Ohio, as a plastic research chemist. He had also been a research group leader at Monsanto Chemical Company, St. Louis, Mo., and a director of special products research for Johnson & Johnson, New Brunswick, N. J.

Shawinigan Executive V.-P.

Dr. R. Stephen Jane, vice-president and director in charge of research and development for Shawinigan Chemicals, Ltd., Montreal, has been appointed executive vice-president. He succeeds H. S. Reid, executive vice-president since 1951 and a director and vice-president since 1927, who is retiring.

Pfizer Names Frank Black Manager of Chemical Sales

Marshall N. de Noyelles, general manager of the chemical sales division of Chas. Pfizer & Co., Brooklyn, N. Y., has announced the appointments of Frank F. Black as sales manager of the division and Paul E. Weber as assistant sales manager.

Mr. Black, whose previous post was that of assistant manager of the chemical sales division, assumes specific responsibility for operation of the division. Mr. Weber, formerly national field sales manager, will concentrate on staff activities of the division.

Ronald Helps, formerly with Chemical Specialties, Inc., the American sales affiliate of Syntex, S. A., will act as special assistant to Mr. Black. John R. Marshall has been named sales service manager, while R. W. Burnham will serve as his assistant. The food and beverage, medicinal chemical and industrial chemical sales departments will continue to be headed by John E. McVeigh, George E. Mauer and W. E. Braswell, respectively. Robert C. Benman has been named assistant manager under Mr. McVeigh.

Freeport Sulphur Opens Mine

Freeport Sulphur Company last week announced that its new mine at Nash dome in Fort Bend County, Tex., thirty-five miles southwest of Houston, has been placed in production. Nash dome is one of four new sulphur projects undertaken by the company in the last few years. The other three are in Louisiana.

Margarine Decontrol by UK Probed for Its Effect on US

Noting that the United Kingdom has announced the decontrol of butter, margarine, cooking fat and cheese effective May 8 after fourteen years of government regulation, the Foreign Agricultural Service last week attempted to analyze the effect such action might have on United States exports of these products. The agency said:—

"According to London sources, the prospective market for United States fats and oils in the United Kingdom after decontrol is contingent upon certain prevailing conditions. Existing contracts with west Africa territories, Malaya, and other countries will continue for the next year and a half to two years with the Ministry of Food doing the buying. During this period purchases from other sources necessarily will be limited.

"Also, the traditional pattern of fat and oil imports, except for lard, is to buy from non-dollar sources. However, the postwar pattern of trade has changed to a large extent. For example, India is no longer a large peanut exporter whereas the United States has large supplies of linseed and soybeans compared with prewar.

"Therefore, assuming liberalized free trade as is the case now for soybeans and linseed, the determining factor will be the competitive position of different United States oils and fats. Aside from lard, the most likely prospects for shipments to the United Kingdom are for soybeans, linseed, cottonseed oil and tallow. If United States prices are competitive, supplies will be imported. However, other United King-

—Continued on page 39

Naval Stores Concerns Moving Toward Merger

Columbia Naval Stores Company of Savannah, Ga., and Peninsular-Lurton Company of Jacksonville, Fla., last week announced that, subject to ratification by their stockholders, they are completing negotiations toward the formation of the Southern Gum Processing Company. The new firm will own and operate the seven processing plants of the parent companies in Fitzgerald, Hazelhurst, Helena, Homerville, Jessup, McRae and Tifton, Ga.

The move, it was stated, will permit greater economy and lead to improved efficiency of operation, and was dictated by the greatly reduced crop and an attempt to avoid increasing operational costs. Headquarters of Southern Gum Processing will be in Savannah. The new firm, if approved by the stockholders, is tentatively slated to come into existence on March 1.

International Naval Stores Company of New York will be the exclusive sales agent of Southern Gum Processing. Columbia Naval Stores will now have a one-third ownership in International Naval Stores, along with Metal Traders, Inc., and Peninsular-Lurton Company. Previously, the latter two firms were the sole owners of International Naval Stores.

Customs Official Seeks Aid of Chemical Trade

The chemical industry must give technical assistance to the customs authorities if they are to carry out their work satisfactorily, Robert W. Dill, Collector of Customs of the Port of New York, told the Synthetic Organic Chemical Manufacturers' Association at its regular monthly meeting in New York last week.

"We and our staff realize that imported chemical products are complex in character and that many technical questions arise concerning their classification," Mr. Dill said, adding that "our staff as well as that of the appraiser must look to the American chemical industry for aid and assistance in identifying these products and ascertaining whether they are dutiable under one paragraph of the chemical schedule or another paragraph of such schedule.

Notes Import Practice

"We have noted that many domestic producers of chemical products import basic chemicals or crude materials of chemical nature which are processed in the United States by manufacturing efforts and exported to other countries," Mr. Dill went on.

"Where the basic chemical or crude material is dutiable, a drawback or refund of 99 percent of such duties may be obtained by the manufacturer complying with the drawback provisions of the tariff act," Mr. Dill pointed out. "American producers of chemicals intended for export should be alert to conform their manufacturing practices so as to be covered by the customs regulations concerning the granting of drawback.

Manufacturer Can Lose Drawback

"Failure to comply with the regulations often results in the manufacturer losing his right to receive a drawback of customs duties and we suggest that American chemical producers make certain that they have obtained a decision from the Treasury Department entitling them to a 'rate of drawback' and that they adhere strictly to the methods outlined by the department for identifying imported materials and identifying exported finished products with such raw materials," Mr. Dill continued.

"Our office will be glad to consult with any manufacturer who either has not taken advantage of the drawback provisions of the statute or who has been denied drawback for failure to comply with the statute and regulations," Mr. Dill said.

Para-Xylene Production Unit Planned by Sinclair

Sinclair Chemicals, Inc., a subsidiary of Sinclair Oil Corporation, New York, has announced plans to build a para-xylene unit at Marcus Hook, Pa. The unit, part of a program to step up the company's petrochemicals production, is designed to recover para-xylene from a new catalytic reformer already under construction at Sinclair Refining Company's Marcus Hook, Pa., refinery.

Initial operation of the para-xylene unit, which will have a capacity of 10,000,000 pounds annually is scheduled for the first quarter of 1955. Sinclair has contracted to supply para-xylene to Hercules Powder Company, Wilmington, Del. Hercules last month revealed plans for a plant at Burlington, N. J., to convert para-xylene to dimethyl terephthalate for use by Imperial Chemical Industries of Canada, Ltd., in the production of its synthetic fiber, "Terylene," at a plant under construction in Millhaven, Ontario (OPD, 1/11/54).

As part of an aromatics program, Sinclair will also produce toluene, xylene solvents and heavy aromatics. A sizable sulphur producing plant and synthetic detergent raw material producing facilities are already in operation at Marcus Hook. Odorless solvents and other petrochemicals are produced at Sinclair's Houston, Tex., refinery.

Rhodia Starts Up Operations At Paterson Aromatics Plant

Rhodia, Inc., New York, has stated operations at its new aromatic chemicals plant in Paterson, N. J., it was announced last week by Edward A. Bush, manager of the companys' aromatic sales. At the plant, Rhodia will produce and distribute a complete and original line of aromatics, perfume bases and specialties, under processes recently reacquired from E. I. du-Pont de Nemours & Co., Wilmington, Del. Louis Appel, formerly a perfumer for du-Pont, has become associated with Rhodia as head perfumer of its Paterson plant.

Washington Talks It Over

By Ralph L. Cherry

The house ways and means committee has been meeting almost daily since January 13 re-writing the general tax laws to remove many of the inequities of the present structure. This long-overdue job has been moving forward very rapidly, with a minimum of quarreling between the Republicans and Democrats, and a completed bill should make its appearance on the house floor early next month.

The fact that politics seems to be playing but a minor role in the drafting of the legislation should not be interpreted to mean that nothing but smooth sailing is ahead for the bill, however. There is a lot going on behind the scenes which indicates that several of the issues in the bill will be decided strictly on political, rather than economic grounds, when the bill reaches the voting stage in the house.

The Democrats are readying a motion to get another $100 increase in the exemption of individual taxpayers. Although this would cost an estimated $2,500,000,000 in revenues, they are going to propose that the bill be recommitted to provide this increased exemption and insist that every member of the house stand up and be counted on the issue. Some Republicans from districts where the two parties are pretty evenly divided are going to find it hard to vote against this motion in this election year.

There is also the problem of what to do about the corporation income taxes. The present rate of 52 percent is due to terminate April 1 and revert back to its old level of 47 percent. On the same date all the increases in excise taxes that were put into effect at the outset of the Korean invasion drop back to their old levels. President Eisenhower has asked that both the corporation and excise increases be extended for another year.

It has been suggested that the corporation tax reduction be allowed to go into effect and that all the excise taxes be wiped out, except those on liquor, cigarettes and gasoline, and that a general manufacturers sales tax substituted. Sales taxes are unpalatable politically, but if the members get into a real row over corporation and excise levies, the manufacturers tax might have as much as a fifty-fifty chance.

FTC Rules on Subpoenas

The Federal Trade Commission has ruled out the "shot-gun" type of subpoena for respondent firms seeking to find justification for their price discriminating acts in the sales practices of their competitors. In the future, says the commission, respondent firms will be issued subpoenas for a competitor's records only to the extent they are relevant to its defense.

The ruling was made in the case of a firm charged with price discrimination in the sale of automotive products in violation of the Clayton act. The hearing examiner had authorized the company to

—Continued on page 32

Kolker Vice-President

J. G. Brunton, who resigned in December as sales vice-president of Diamond Alkali Company's organic chemicals division (OPD, 12/7/53), has joined Kolker Chemical Corporation, Newark, N.J., in a similar capacity. This marks Mr. Brunton's second association with a Kolker company. In 1949 he joined Kolker Chemical Works, Inc., as sales vice-president, and continued in that post upon the firm's acquisition by Diamond in 1951. Previously, he was with Pennsylvania Salt Manufacturing Company, Philadelphia, for ten years.

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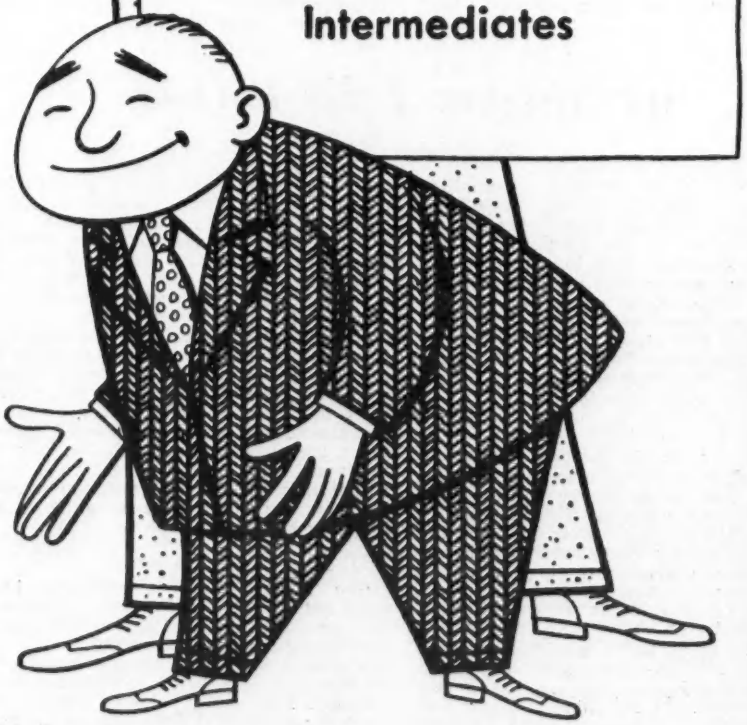

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Association Meetings

This Week

American Management Association, personnel conference, Palmer house, Chicago. February 15-17.

American Pharmaceutical Manufacturers Association, western section meetings, Ambassador hotel, Los Angeles, Calif., February 15-16.

Technical Association of the Pulp and Paper Industry, Commodore hotel, New York, February 15-18.

Air Pollution Control Association, annual meeting, Patten hotel, Chattanooga, Tenn., May 3-5.

American Chemical Society, national meeting, Municipal Auditorium, Kansas City, Mo., March 24-April 1; Chicago section, national chemical exposition, Chicago Coliseum, October 12-15.

American Drug Manufacturers Association, annual meeting, Lake Placid Club, Lake Placid, N. Y., June 28-30.

American Institute of Chemical Engineers, annual meeting, New Yorker hotel, New York, December 12-15.

American Management Association, national packaging exposition, Convention Hall, Atlantic City, N. J., April 5-8.

American Oil Chemists' Society, annual meeting, Plaza hotel, San Antonio, Tex., April 12-14.

American Petroleum Institute, Conrad Hilton hotel and Palmer House, Chicago, November 8-11.

American Pharmaceutical Association, Statler hotel, Boston, August 22-27.

American Pharmaceutical Manufacturers Association, annual meeting, Boca Raton Club, Boca Raton, Fla., March 29-31.

American Plant Food Council, annual meeting, Homestead, Hot Springs, Va., June 10-13.

American Society for Testing Materials, annual meeting, Sherman and Morrison hotels, Chicago, June 13-18.

American Soybean Association, annual convention, Memphis, Tenn., August 30-September 1.

American Water Works Association, annual conference, Seattle, Wash., May 23-28.

Association of Consulting Chemists and Chemical Engineers, symposium and banquet, Belmont Plaza hotel, New York, April 27; annual meeting, symposium, Belmont Plaza hotel, New York, October 26.

Basic Materials Exposition, International Amphitheatre, Chicago, May 17-20.

Chemical Institute of Canada, protective coatings division conference, Toronto and Montreal, February 25-26; annual conference and exhibition, Royal York hotel, Toronto, June 21-25.

Chemical Market Research Association, Niagara hotel, Niagara Falls, N. Y., February 25.

Chemical Specialties Manufacturers Association, mid-year meeting, Netherlands Plaza hotel, Cincinnati, Ohio, May 23-25; annual meeting, New Yorker hotel, New York, December 5-7.

Combined Pharmaceutical Contact Committee of ADMA and APMA, Washington hotel, Washington, D. C., March 31-April 1.

Commercial Chemical Development Association, annual open meeting, Statler hotel, New York, March 17-18.

Drug Chemical and Allied Trades section of the New York Board of Trade, annual dinner, Waldorf-Astoria hotel, New York, March 4.

Federal Wholesale Druggists' Association, mid-year meeting, Statler hotel, New York, February 25-27; annual convention, Greenbrier hotel, White Sulphur Springs, W. Va., September 19-22.

Federation of Paint and Varnish Production Clubs, annual meeting, Palmer House, Chicago, November 18-20.

Flavoring Extract Manufacturers' Association, annual convention, Biltmore hotel, New York,, May 16-19.

Forest Products Research Society, national meeting, Grand Rapids, Mich., May 5-7.

Industrial Research Institute, award dinner, San Francisco, April 22.

Manufacturing Chemists Association, annual meeting and joint outing with SOCMA, Greenbrier hotel, White Sulphur Springs, W. Va., June 3-5.

Metal Powder Association, annual meeting and show, Drake hotel, Chicago, April 26-28.

National Agricultural Chemicals Association, spring meeting, Shamrock hotel, Houston, Tex., March 24-26.

National Chemical Exposition, Chicago Coliseum, Chicago, October 12-15.

National Cottonseed Products Association, annual meeting, Shamrock hotel, Houston, Tex., May 7-11.

National Farm Chemurgic Council, annual chemurgic conference, Peabody hotel, Memphis, Tenn., April 5-7.

National Foreign Trade Council, annual convention, Waldorf-Astoria hotel, New York, November 15-17.

National Paint, Varnish and Lacquer Association, annual meeting, Palmer House, Chicago, November 15-17.

Packaging Institute, forum, Roosevelt hotel, New York, October 25-27.

Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, William Penn hotel, Pittsburgh, Pa., March 1-5.

Plant Maintenance Show, Pan Pacific Auditorium, Los Angeles, July 13-15.

Southern Industrial Wastes Conference, Shamrock hotel, Houston, Tex., April 21-23.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Commodore hotel, New York, March 10; joint outing with MCA, Greenbrier hotel, White Sulphur Springs, W. Va., June 3-5.

Toilet Goods Association, annual meeting, Waldorf-Astoria hotel, New York, May 11-13.

Oils, Fats Consumption: December

Factory consumption of primary oils, fats, fatty acids, and related materials, in December, 1953, totaled 1,396,211,000 pounds, according to the Bureau of Census. Consumption in the major specified lines of industry included the following quantities:—

	Pounds
Edible products	289,499,000
Paint and varnish	38,941,000
Processing	329,187,000
Refining	835,036,000
Soap	123,268,000

Factory consumption of individual materials was reported as follows:—

Oils

	Pounds	
Babassu—	Crude	Refined
Refining	.....	.....
Soap	.....	.....
Other	.....	.....
Castor—	No. 1	No. 3
Refining	.....	.....
Fat-splitting	.....	.....
Sulphonation	114,000	187,000
Soap	[1]	[1]
Paint and varnish	217,000	10,000
Linoleum and oilcloth	[1]	[1] .....
Chemicals	[1]	[1] .....
Lubricants and greases	[1]	27,000
Other uses	3,024,000	1,590,000
Castor, dehydrated—		
Soap	.....	.....
Paint and varnish	.....	793,000
Linoleum and oilcloth	.....	.....
Lubricants and greases	.....	.....
Other uses	.....	289,000
Coconut—	Crude	Refined
Refining	20,004,000	.....
Deodorizing	.....	5,687,000
Hydrogenation	.....	2,204,000
Fat-splitting	3,942,000	[1]
Shortening	.....	104,000
Sulphonation	49,000	6,000
Other edible products	[1]	1,445,000
Chemicals	[1]	[1]
Soap	7,299,000	8,893,000
Paint and varnish	.....	355,000
Other uses	[1]	2,014,000
Cod and codliver—		All grades
Sulphonation	.....	255,000
Deodorizing	.....	.....
Paint and varnish	.....	.....
Other uses	.....	843,000
Corn—	Crude	Refined
Refining	19,877,000	.....
Sulphonation	.....	[1] .....
Deodorizing	.....	[1] .....
Winterizing for salad oil	.....	[1] .....
Shortening	.....	[1] .....
Oleomargarine	.....	[1]
Other edible uses	[1]	7,965,000
Soap	[1]	[1] .....
Paint and varnish	.....	.....
Other uses	66,000	123,000
Cottonseed—	Crude	Refined
Refining	214,375,000	.....
Sulphonation	.....	.....
Hydrogenation	.....	49,378,000
Deodorizing	.....	[1] .....
Winterizing for salad oil	.....	52,341,000
Shortening	.....	20,715,000
Oleomargarine	.....	3,998,000
Other edible uses	.....	1,518,000
Soap	.....	[1] .....
Paint and varnish	.....	[1]
Other uses	[1]	51,000
Fish—	Menhaden	Sardine
Refining	[2]	[2] .....
Fat-splitting	.....	.....
Sulphonation	[2]	181,000
Soap	.....	.....
Paint and varnish	615,000	424,000
Linoleum and oilcloth	[2]	[2] .....
Lubricants and greases	96,000	.....
Other uses	626,000	106,000
Fish, other—	Crude	Refined
Refining	.....	.....
Paint and varnish	.....	89,000
Other uses	395,000	[2] .....
Fishliver, other than cod—		
Sulphonation	.....	.....
Lubricants and greases	.....	.....
Other uses	.....	269,000
Linseed—	Raw	Refined
Refining	18,212,000	.....
Fat-splitting	[1]	[1] .....
Soap	.....	[1] .....
Paint and varnish	7,725,000	12,039,000
Linoleum and oilcloth	4,597,000	903,000
Lubricants and greases	[1]	.....
Other uses	5,084,000	3,585,000
Marine mammal—		All grades
Refining	.....	.....
Sulphonation	.....	453,000
Paint and varnish	.....	.....
Chemicals	.....	172,000
Lubricants and greases	.....	1,386,000
Other uses	.....	177,000
Neatsfoot—		All grades
Refining	.....	.....
Sulphonation	.....	38,000
Soap	.....	.....
Chemicals	.....	[2] .....
Lubricants and greases	.....	[2]
Other uses	.....	184,000
Oiticica—		All grades
Paint and varnish	.....	500,000
Linoleum and oilcloth	.....	[1] .....
Other uses	.....	189,000
Olive—	Edible	Inedible
Edible uses	133,000	.....
Soap	7,000	226,000
Other uses	[1]	.....
Oleo—		All grades
Shortening	.....	15,000
Oleomargarine	.....	[2] .....
Other edible uses	.....	[2] .....
Soap	.....	.....
Lubricants	.....	.....
Other uses	.....	.....
Palm—	Crude	Refined
Soap	[1]	[1] .....
Lubricants and greases	.....	[1] .....
Other uses	2,223,000	[1] .....
Palmkernel—	Crude	Refined
Soap	[1]	[1] .....
Peanut—	Crude	Refined
Refining	[1]	.....
Sulphonation	[1]	52,000
Hydrogenation	.....	585,000
Deodorizing	.....	1,331,000
Winterizing for salad oil	.....	.....
Shortening	.....	[1] .....
Oleomargarine	.....	[1] .....
Other edible uses	.....	576,000
Soap	.....	[1] .....
Other uses	.....	147,000
Perilla—		All grades
Paint and varnish	.....	.....
Rapeseed—		
Lubricants and greases	.....	197,000
Sesame, refined—		
All uses	.....	136,000
Soybean—	Crude	Refined
Refining	179,398,000	.....
Fat-splitting	[1]	[1] .....
Sulphonation	7,000	56,000
Hydrogenation	.....	84,788,000
Deodorizing	.....	12,390,000
Winterizing for salad oil	.....	[1] .....
Shortening	.....	33,224,000
Oleomargarine	.....	[1] .....
Other edible uses	.....	7,690,000
Soap	38,000	[1] .....
Paint and varnish	290,000	5,896,000
Chemicals	.....	[1] .....
Lubricants and greases	37,000	12,000
Linoleum and oilcloth	[1]	[1] .....
Other uses	6,153,000	5,456,000
Tallow—		Pounds All grades
Soap	.....	.....
Lubricants and greases	.....	582,000
Other uses	.....	[2] .....
Tung—		
Paint and varnish	.....	3,000,000
Chemicals	.....	[1] .....
Lubricants and greases	.....	.....
Linoleum and oilcloth	.....	20,000
Other uses	.....	392,000
Vegetable, not specified—		
Refining	.....	6,573,000
Fat-splitting	.....	1,020,000
Hydrogenation	.....	578,000
Sulphonation	.....	45,000
Winterizing for salad oil	.....	14,531,000
Shortening	.....	695,000
Oleomargarine	.....	4,085,000
Other edible uses	.....	810,000
Soap	.....	3,048,000
Paint and varnish	.....	383,000
Linoleum and oilcloth	.....	461,000
Chemicals	.....	2,985,000
Lubricants and greases	.....	153,000
Other uses	.....	6,648,000

Fats and Greases

Grease and lard oil—		
Sulphonation	.....	148,000
Soap	.....	.....
Lubricants and greases	.....	1,609,000
Other uses	.....	878,000
Grease, not specified—		
Refining	.....	.....
Fat-splitting	.....	6,022,000
Winterizing	.....	.....
Sulphonation	.....	8,000
Hydrogenation	.....	[2]
Pressing	.....	6,385,000
Soap	.....	15,703,000
Lubricants and greases	.....	73,000
Other uses	.....	238,000
Lard—	Rendered	Refined
Shortening	4,760,000	5,629,000
Oleomargarine	[2]	.....
Hydrogenation	1,736,000	1,407,000
Other edible uses	1,213,000	886,000
Soap	.....	[2] .....
Lubricants and greases	.....	[2] .....
Other uses	.....	[2] .....
Stearin, animal—	Edible	Inedible
Shortening	310,000	.....
Oleomargarine	254,000	.....
Other edible uses	[2]	.....
Soap	[2]	119,000
Other uses	[2]	127,000
Stearin, vegetable—		
Shortening	.....	4,812,000
Oleomargarine	.....	754,000
Hydrogenation	.....	3,682,000
Other edible uses	.....	44,000
Other uses	.....	[2] .....
Tallow, edible—	Crude	Refined
Refining	[2]	.....
Fat-splitting	.....	.....
Hydrogenation	877,000	[2] .....
Sulphonation	.....	.....
Shortening	1,604,000	1,313,000
Soap	[2]	.....
Lubricants and greases	[2]	.....
Other uses	879,000	349,000
Tallow, inedible—	Crude	Refined
Refining	25,511,000	.....
Fat-splitting	15,490,000	.....
Hydrogenation	1,193,000	1,045,000
Pressing	148,000	.....
Sulphonation	370,000	[2] .....
Shortening	.....	.....
Other edible uses	.....	.....
Soap	55,428,000	255,000
Lubricants and greases	2,194,000	145,000
Other uses	5,200,000	105,000

Fatty Acids and Acid Stocks

Animal foots—	
Soap	[2] .....
Other uses	[2] .....
Fatty acid stocks, not specified—	
Refining	1,140,000
Fat-splitting	[2] .....
Sulphonation	[2]
Soap	759,000
Paint and varnish	59,000
Linoleum and oilcloth	.....
Lubricants and greases	27,000
Other uses	2,225,000
Fish and marine mammal fatty acids—	
Sulphonation	[2] .....
Paint and varnish	[2] .....
Lubricants and greases	[2] .....
Other uses	[2] .....
Fish and marine mammal foots—	
All uses	[2] .....
Oleic acid, including white oleic and red oil—	
Sulphonation	219,000
Soap	919,000
Paint and varnish	11,000
Chemicals	632,000
Lubricants and greases	315,000
Other uses	1,436,000
Olive oil foots (including sulphur oil)—	
Soap	226,000
Other stearic acids (over 50% stearic content), high palmetic (over 60% plametic), hydrogenated animal and vegetable fatty acids—	
Sulphonation	[2] .....
Soap	12,000
Paint and varnish	[2] .....
Lubricants and greases	437,000
Chemicals	615,000
Other uses	2,068,000
Stearic acid (40-50% stearic content)—	
Sulphonation	[2]
Soap	255,000
Paint and varnish	[2] .....
Lubricants and greases	145,000
Chemicals	344,000
Other uses	2,390,000
Unsaturated animal fatty acids (unhydrogenated), other than oleic—	
Winterizing and pressing	4,378,000
Soap	872,000
Lubricants and greases	370,000
Other uses	168,000
Unsaturated vegetable fatty acids (unhydrogenated)—	
Sulphonation	[2] .....
Hydrogenation	[2] .....
Soap	1,779,000
Paint and varnish	1,484,000
Lubricants and greases	[2] .....
Chemicals	[2] .....
Other uses	2,717,000
Vegetable foots—	
Fat-splitting	8,380,000
Soap	2,778,000
Paint and varnish	56,000
Other uses	1,183,000

[1] Included in "Total of vegetable oil not shown separately, including small quantities for items for which data are not reliable."
[2] Included in materials other than vegetable oils not shown separately, including small quantities for items for which data are not reliable.
[3] Not shown to avoid disclosure of figures for individual companies.

Pittsburgh Conference Plans Are Announced

Plans for the fifth annual Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, to be held March 1 through 5 in the William Penn hotel, Pittsburgh, Pa., have been announced by the joint sponsors, the analytical chemistry group of the American Chemical Society's Pittsburgh section and the Spectroscopy Society of Pittsburgh.

New technics for assaying uranium, recent methods of controlling lubricating oil additives, and testing procedures for newly-developed alloys are some of the contributions of analytical chemistry and spectroscopy to be reported in a total of 122 technical papers by chemists and spectroscopists from university, government and industrial laboratories throughout the country.

Bikini Bomb Tests to Be Described

Dr. John H. Yoe, director of the Pratt Analysis Laboratory of the University of Virginia and a former member of the National Defense Research Committee, will speak at the conference dinner on March 3 in the Pittsburgh Room of the hotel. Dr. Yoe, who was an investigator in the Office of Scientific Research and Development during World War II and a scientific observer at the Bikini atomic bomb tests, will talk on "The Bomb Tests at Bikini by an Eye Witness." David L. Lawrence, Mayor of Pittsburgh, will give a welcoming address and J. Raynor Churchill, of the Aluminum Company of America, New Kensington, Pa., will be toastmaster.

The conference will open at 10 a. m. March 1 with welcoming remarks by Dr. M. L. Moss, of Alcoa, chairman; K. O. Stevenson, also of Alcoa, president of the analytical chemistry group, and Dr. A. G. Sharkey, jr. of Bureau of Mines, Pittsburgh, chairman of the Spectroscopy Society.

Analytical Chemistry Talk

Dr. George D. Beal, director of research at the Mellon Institute for Industrial Research, will give the opening address, "Analytical Chemistry in Retrospect and Prospect." R. K. Scott of the Hall Laboratories, Inc., will serve with Dr. Moss as co-chairman of the conference.

A new feature this year will be tours to the Alcoa building and to H. J. Heinz Company. There will be three such tours on March 1 and three tours on March 3. The latest developments in analytical equipment will be demonstrated at an exposition of modern laboratory apparatus in the hotel every morning except March 1, as well as the afternoon of March 3 and the afternoon and evening of March 4.

A display of new books, both foreign and American, on chemical analysis, spectroscopy and related subjects will also be presented, and an employment service will provide for consultations between employers and prospective employees.

Aluminum Ass'n Elects Officers for New Term

Aluminum Association has reelected D. A. Rhoades of Kaiser Aluminum & Chemical Corporation, Oakland, Calif., president for the 1954 term. Arthur V. Davis, of Aluminum Company of America, New York, has been reelected chairman of the board and Donald M. White has been renamed secretary and treasurer.

The following vice-presidents have been reelected to serve the association for the coming year:—S. D. Den Uyl, Bohn Aluminum & Brass Corporation, Detroit, Mich.; Raymond Deutsch, Monarch Aluminum Manufacturing Company, Cleveland, Ohio, and R. P. Stranahan, Stranahan Foil Company, South Hackensack, N. J.

David P. Reynolds, Reynolds Metals Company, Louisville, Ky., has been elected a director at large to serve a three-year term and directors George A. Ginsburg, New Haven, Conn., and Harry L. Smith, jr., Alcoa, have been re-elected to serve three years.

Drug Contact Parley Slated

The Combined Pharmaceutical Contact Committee of the American Drug Manufacturers Association and the American Pharmaceutical Manufacturers Association will hold its next meeting March 31 and April 1 at the Washington hotel, Washington, D. C.

Margarine Association Elects

Eli Lewis, manager of the margarine department of Armour & Co., Chicago, has been named chairman of the board of directors of the National Association of Margarine Manufacturers.

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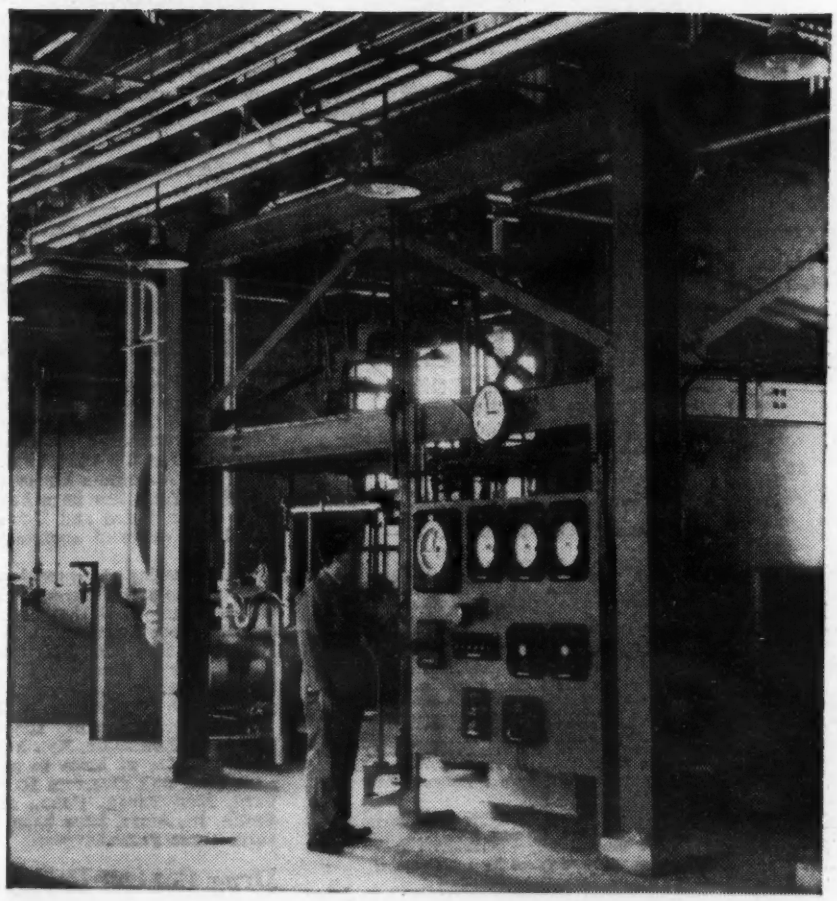

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Current Market Quotations

Chemicals and Related Materials

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Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, February 11 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views.

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A

Acacia (see Gum arabic).

Acenaphthene below 92.5 C., m.p., dms. works lb. .40 - —
above 92.5 C., m.p., bbls., dms., works lb. .41 - .50

Acetaldehyde 99% dms. c.l., frt. equald lb. .1250- .1435
l.c.l., frt. equald lb. .1350- .1535
tanks, frt. equald lb. .1050- .1300

Acetaldol (see Aldol).

Acetanilide tech., bbls., c.l., dlvd lb. .29 - —
ton lots lb. .30 - —
smaller lots lb. .30½- —
USP, bbls., 2,000-lb. lots lb. .80 - —
smaller lots lb. .81 - .86

Acetic anhydride dms., c.l., dlvd E. lb. .15½- —
l.c.l., dlvd E lb. .17 - —
tanks, dlvd. E lb. .14 - —

Acetoacetanilide, fib. dms., c.l., dlvd. lb. .75 - —
l.c.l., dlvd. lb. .76 - —

Acetoacet-o-chloroanilide, fib., dms., c.l., dlvd lb. 1.27 - —
l.c.l., dlvd. lb. 1.28 - —

Acetoacet-o-toluidide, fib., dms., c.l., dlvd lb. .78 - —
l.c.l., dlvd lb .79 - —

Acetone, CP, dms., c.l., dlvd. lb. .10¼- —
l.c.l., dlvd. lb. .11½- —
tanks, dlvd. lb. .06½- —

Methyl (see M)

Acetonitrile, dms. c.l. works lb. .45 - —
l.c.l., works lb. .47 - —

Acetophenetidin USP bbls., works, frt. equald lb. 1.15 - 1.17

Acetophenone cns., dms. lb. 1.21 - 1.85
tech., dms., l.c.l., works lb. .75 - —

N-Acetyl-p-aminophenol, dms., frt. adjusted lb. 1.75 - 1.95

Acetyltributyl citrate, tech. dms., c.l lb. .33½- —
l.c.l lb. .38½- —
tanks lb. .32 - —

Acetyltriethyl citrate tech. dms., c.l lb. .37½- —
l.c.l. lb. .38½- —
tanks lb. .36 - —

Acid, abietic, com'l., dms., c.l., works lb. .12 —
l.c.l., works lb. .1490- —
cryst., dms. c.l. works lb. .06½- —
l.c.l., works lb. .07 - .07½

Acetic, com'l or redist., 28%, bbls 100 lbs 5.50 - —
56%, bbls 100 lbs. 9.65 - —
70%, bbls 100 lbs.11.70 - —
80%, bbls 100 lbs.12.45 - —
glacial, synthetic, CP dms. dlvd 100 lbs.15.00 -16.00
tech., dms., c.l., dlvd 100 lbs.10.50 -12.00
l.c.l., same basis 100 lbs.11.00 -13.00
tanks, dlvd. 100 lbs. 10.00 - —
100 lbs.10.00 - —
USP cbys., inclusive, dlvd., 100 lbs.24.00 -25.00
dms., dlvd. 100 lbs.13.50 -14.50

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic USP special bbls., makers, primary distrib., point of ship't. 1000-lb. lots lb. .60 - —
standard, fine cryst., gran., (30-40 mesh powd. (60 mesh), bbls same basis, lb. .55 - —

Freight equald, ship't identical quantity over standard routes from N. Y., Phila., Mid'and, Mich., Chicago and St Louis

Adipic, fib. dms., works lb. .37 - .37½

Aminoacetic NF bbls., frt. adjusted lb 1.50 - 1.75

p-Aminobenzoic, tech., dms., works lb. 1.74 - 1.77

USP, dms., 1,000-lb. lots or more, worsk lb. 2.50 - —
smaller lots, works lb. 2.55 - 2.60

p-Aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.00 - —
smaller lots, same basis lb. 4.05 - 4.50

Anthranilic, bbls., frt. equald lb. 1.21 - —

Arsenous, tech (see Arsenic, white).

USP (see Arsenic trioxide).

Ascorbic USP dms. 25-50 kilo lots, kilo.21.00 - —
10-kilo lots kilo.21.35 - —
5-kilo lots kilo.21.75 - —
bots., 1-kilo lots kilo.22.00 - —
500-gram lots kilo.22.50 - —

Battery, chys. c.l., works, E. 100 lbs. 2.35 - —
l.c.l., works, E 100 lbs. 2.65 - 3.45

Benzoic, tech. bbls., dms., 100-lb. lots or more lb. .44 - —
USP, bbls. dms. 100-lb. lots or more lb. .54 - —

Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).

Betaoxynaphthoic (see Acid, b-Oxynaphthoic).

Boric, tech. 99½%, cryst., bgs., c.l., works ton.124.25- —
ton lots, ex whse., N. Y. or Chi ton.172.00- —
smaller lots, same basis, ton.177.00- —
bbls., c.l., works ton.148.75- —
ton lots, ex whse., N. Y. or Chi ton.196.50- —
smaller lots, same basis, ton.201.50- —
gran., bgs., c.l., works ton.99.25 - —
ton lots, ex whse., N. Y. or Chi ton.147.00- —
smaller lots, same basis, ton.152.00- —
bbls., c.l., works ton.123.75- —
ton lots, ex whse., N. Y. or Chi ton.171.50- —
smaller lots, same basis, ton.176.50- —
bulk, c.l., works ton.94.25 - —
powd., bgs c.l., works ton.104.25- —
ton lots, ex whse., N. Y. or Chi ton.152.00- —
smaller lots, same basis, ton.157.00- —

Acid, boric, tech. powd., bbls., c.l., works ton.128.75- - —
bbls., c.l., works ton.128.75- —
ton lots, ex whse., N. Y or Chi ton.176.50- —
smaller lots same basis, ton.181.50- —

Boric acid in kegs $45.50 per ton higher than in paper bgs. USP boric acid $25 per ton higher.

Broenners, bbls lb. 1.76 - —

Butyric, 99%, dms., c.l., works, lb. .34 - —
l.c.l., works lb. .34½- —
tankcars, works lb. .32¼- —

Cacodylic, bots lb 10.50 13.00

Camphoric natural, dms lb. 4.00 4.75
synth dms lb 4.00 4.75

Capric, dms lb. .26¼- .28

Caprylic, dms lb. .32½- .34½

Cassella, dms., frt. alld lb. 1.44 1.75

Castor oil, split, dms lb. .35½- .36

Chicago, bbls., frt. alld lb. 3.21 - —

Chloroacetic, mono-, purified, flake, 99%, dms lb. .23½- .25¼

o-Chlorobenzoic, fib. dms., works lb. 1.13 - —

p-Chlorobenzoic, fib. dms., works lb. 1.59 - 1.62

Chlorosulfonic dms., c.l., frt. equald lb. .0463- —
l.c.l., frt. equald lb. .0515- —
tanks, frt. equald lb. .0415- —

Acid, chlorosulphonic, in stainless steel dms. ½c. per lb. higher.

Cholic, 25-100-lb. bots., fiber dms. lb. .No prices.

Chromic 99¾%, dms., c.l., works lb. .27½- —
l.c.l., works lb. .28 - .29

NF (see Chromium trioxide)

Cinnamic, refd., bots lb. 2.50 - 3.50

Citric, USP, anhyd., gran., fine gran., dms., c.l. lb. .28¾- —
10,000-lb. lots, 1 ship't. lb. .29¼- —
smaller lots lb. .29¾- .31¼
hydrous, gran., fine gran., dms., c.l lb. .27 - —
10,000-lb. lots, 1 ship't. lb. .27½- —
smaller lots lb. .28 - .29½

Powdered citric acid ½c. higher.

Cleve's, mixed, bis lb. .79 - —

Coconut oil, dist., dms lb. .27 - .28¾
tankcars lb. .25¼- —

double dist., dms lb. .27¾- .29½
tankcars lb. .26 - —

Corn oil, dist., dms lb. .13 - .14¾
tanks lb. .11¼- —

Cottonseed oil, dist., dms lb. .11¼- .13
tanks lb. .09½- —

double, dist., dms lb. .11¾- .13½
tanks lb. .10 - .10¼

Acid, 2,3-Cresotic, dms., ton lots, works lb. .66 - —
smaller lots, works lb. .68 - —

Cresylic, coaltar, dom., 50% 207°C or above, ret. dms., c.l., frt. equald gal. .98 - —
l.c.l., same basis gal. 1.03 - —
non-ret., dms., c.l., same basis gal. 1.01 - —
l.c.l. same basis gal. 1.04 - —
tanks, same basis gal. .90 - —

204° to 207°C., ret., dms., c.l., same basis gal. 1.03 - —
l.c.l., same basis gal. 1.08 - —
non-ret., dms. c.l. same basis gal. 1.06 - —
l.c.l., same basis gal. 1.09 - —
tanks, same basis gal. .95 - —

imp. 75% at 215°C. or over, dms., ex whse gal. .75 - .90

petroleum, dom., 195° to 213°C, non-ret. dms., c.l. San Francisco and Los Angeles gal. .71 —
l.c.l., same basis gal. .73 - .75
tanks, same basis gal. .58 - —

200° C. to 222° C., tanks, Wilmington, Cal gal. .58 - .63

211° C to 236° C. non-ret. dms., c.l., San Francisco and Los Angeles gal. .63 —
l.c.l., same basis gal. .65 - .67
tanks, same basis gal. .50 - —

220° C to 242° C, tanks, Wilmington Cal gal. .50 - .53

245° C to 298° C, tanks, Wilmington Cal gal. .46 - —

Crotonic, fib. dms., 200 lbs. or more, works lb. .45 - —

Cyanoacetic, tech. bbls lb. .90 1.25

Dehydrocholic, injection, fib dms., 10 to 100-lb. lots lb. .No prices.
oral, fib., dms., 10 to 100-lb. lots lb. .No prices.

Desoxycholic, fib dms., 10 to 100-lb. lots lb. No prices.

Dichlorophenoxyacetic (see under 'D' 2,4-D)

Diethylbarbituric (see Barbital)

Diglycolic, bgs., works lb. .14 - —

2-Ethyl hexoic, dms. c.l., works lb. .35 - —
l.c.l., works lb. .35½- —
tanks, works lb. .33½- —

F, crude, paste, bbls., works lb. 2.10 - —

Folic, bots, fib. cns. kilo-lots or more gram. 1.60 - —

Formic, 85%, cbys., c.l., works lb. .1570- —
l.c.l., works lb. .1620- .1720
90%, cbys., c.l., works lb. .1625- —
l.c.l., works lb. .1675- .1775

Acid, fumaric, tech., bgs., dms lb. .27 - .28
Gallic, NF VII, bbls., 1,000-lb. lots. lb. 1.80 —
smaller lots lb 1.82 2.00
technical, bbls., 1,000-lb. lots lb 1.58 —
smaller lots lb. 1.69 1.78

Gamma, dry, ground, bbls., frt. alld lb 1.50 - —
paste, bbls., frt. alld lb. 1.45 - —

Gentisic, 100-lb fib. dms lb 8.50 - —

Gluconic, tech., 50% bots. lb. .23½- .31¼
cbys. lb. .19 - —
dms. lb. .15½- —

l-Glutamic, 99½% fib. dms., 100-lb lots, works lb 2.45 2.53
25-lb. lots, works lb. 2.60 2.68

Glycerophosphoric, 35%, dms., works lb. 2.25 2.33

Glycolic (see Acid hydroxyacetic).

H, dry, bbls., works, basis 100%, lb. .82 - —
paste, bbls., works, basis 100%, lb. .80 - —

Hydriodic, 1.50 s.g., cbys lb. 2.94 - —
1.70 s.g., cbys lb. 3.23 - —

Hydrobromic, medicinal, 48%, cbys., dlvd E lb. .37 - .43

Hydrochloric, anhydrous (see Hydrogen chloride).

18° cbys., c.l., works 100 lbs. 2.50 - —
l.c.l., dlvd. Metropolitan area 100 lbs. 2.90 - 3.05
tanks, works, frt. equald ton.28.00 - —
20°, cbys., c.l., works 100 lbs. 2.60 - —
l.c.l., dlvd. Metropolitan area 100 lbs. 3.00 - 4.00
tanks, works, frt. equald ton.30.00 - —
22°, cbys. c.l., works 100 lbs. 2.15 - —
l.c.l., dlvd. Metropolitan area 100 lbs. 3.25 - 4.50
tanks, works, frt. equald ton.35.00 - —

CP, USP, consumers, cbys., extra, c.l., works lb. .11¾- —
l.c.l., same basis lb. .13¼- .13¾
5 pint bottles, extra, cs., c.l., same basis lb. .16¾- —
l.c.l., same basis lb. .19¼- —

Acid, hydrochloric, CP, USP, prices to dealers 1½c. per lb less.

Hydrocyanic, cyls., frt. alld lb. .75 - 93
dilute, NF, 2%, 5-lb bots lb. .40 —

Hydrofluoric, anhyd. (see Hydrogen fluoride).
tanks, works lb. .21 - —
70%, steel dms., works lb. .18½- .22½

Hydrofluosilicic, basis 30%, dms., works lb. .06 - —

Hydroxyacetic, tech. 70%, bbls., non-return., Phila., basis 100% lb. .136 - —
tanks, Belle, W Va., basis 100% lb. .095 - —

Hypophosphorous, purif., 50%, cbys lb. 1.30 1.32

USP, cbys lb. 88 —

Isonicotinic, 100 lb fib dms, works lb. 5.00 - —

Hydrazide (see Isoniazid).

J, bbls., works basis 100% lb. 2.50 2.85

Koch, bbls., frt. alld lb. .64 - .70

L, bbls., frt. alld lb. 1.25 - —

Lactic, edible, 50%, bbls., 20 or more lb. .17 - .20
smaller lots lb. .1750- .2100
80%, bbls., 5 or more lb. .30 - .3640
smaller lots lb. .305 - .3699
plastic grade, 50%, bbls., 20 or more, works lb. .2175- —
1 to 19 lb. .2225- .2278
80%, bbls., 5 or more lb. .3818- —

tech., 22%, bbls., c.l., works, 100 lbs. 6.30 - —
l.c.l., works 100 lbs. 6.70 - —
cbys., works 100 lbs. 7.20 -12.20
44%, bbls., c.l., works 100 lbs.11.45 -11.96
l.c.l., works 100 lbs.11.15 -12.50
NF, 85%, cbys lb. .65 - .68

Laurent's, bbls. lb. .80 - .87

Lauric, 90%, dms lb. .39½- .41¼
60%, dms. lb. .23 - .24¼

Linseed oil, dist., dms lb. .2055- .2100
water white, dms. lb. .2355- .2400

Maleic, cryst., powd., dms lb. .37 - .38

Malic, tech., dms lb. .50 - —

Mandelic, NF, dms., 1,000-lb. lots, lb. 2.35 —
smaller lots lb. 2.40 - 2.50

Metanilic, dms., works lb. .57 - .75

Methacrylic, glacial, 98%, dms., truckloads, works lb. .74½- —
smaller lots, works lb. .75 - —

Molybdic, 85-92%, dms. works lb 1.27 —

Monochloroacetic, purif. (see Acid, Chloroacetic, mono-).
tech., flake, 96-97%, frt. equald, dms lb. .20 .21

Muriatic (see Acid, hydrochloric)

Myristic, dms lb. .28 - .29¾

Naphthenic, 220-230 acidity, dms., works lb. .14 —
tanks, works lb. .12 —

Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's)

Naphthol(1)-5-sulphonic (see Acid, L).

Naphthol(1)-5-sulphonic,3-amino (see Acid, S).

Naphthol(1)-3,5-disulphonic,8-amino (see Acid, H).

Naphthol(2)-6,8-disulphonic (see Acid, Gamma).

(5)-7-Sulphonic,2-amino (see Acid, J).

Naphtholsulphonic, mixed (see Acid, Cleve's, mixed)

Naphthylamine(1)-5-sulphonic (see Acid, Laurent's)

(2)-6-sulphonic (see Acid, Broenner's).

(2)-7-sulphonic (see Acid, F).

(2)-1-sulphonic (see Acid, Tobias).

Neville and Winther's, dms., frt. alld lb. 1.20 - —

Nicotinic, USP, dms., frt. adjusted kilo. 9.00 9.50

Amide (see Nicotinamide).

Nitric 36° Be cbys., c.l., works, E. 100 lbs. 5.25 - —
l.c.l., works, E 100 lbs. 5.55 6.35

38° Be cbys., c.l., works, E. 100 lbs. 5.75 —
l.c.l., works, E 100 lbs. 6.05 6.80

Abbreviations

Used in OPD Market Quotations

ACS	American Chemical Society
alld.	allowed
ammo.	ammonia
amorph.	amorphous
AMP.	American melting point
anhyd.	anhydrous
a.p.a.	available phosphoric acid
artif.	artificial
ASTM.	American Society for Testing Materials
Be.	Baume
bbls.	barrels
bgs.	bags
bls.	bales
bots.	bottles
b.p.	boiling point
b.p.l.	bone phosphate of lime
b.r.	boiling range
bxs.	boxes
C.	centigrade
cbys.	carboys
CD.	completely denatured
c.i.f.	cost, insurance, freight
cks.	casks
c.l.	carlots
cns.	cans
col.	color
coml.	commercial
conc.	concentrated
CP.	chemically pure
cps.	centipoises
cryst.	crystal
cs.	cases
ctns.	cartons
cyls.	cylinders
dbl.	double
denat.	denatured
dest-dist.	destructive-distilled
dextro	dextrorotatory
dist.	distilled
distr.	distributor
djns.	demijohns
dlvd.	delivered
dms.	drums
dom.	domestic
E.	east
e.p.	end point
equald.	equalized
exp.	expressed
F	fahrenheit
ferment.	fermentation
ffa.	free fatty acid
ffc.	free from chlorine
fib.	fiber
f.o.b.	free on board
FPA	free of prussic acid
frt.	freight
fus.	fused
gal.	gallon
gran.	granular
grd.	ground
i.&a.	iron and aluminum
i.b.p.	initial boiling point
imp.	imported
incl.	included
indust.	industrial
kgs.	kegs
lacq.	lacquer
lb.	pound
l.c.l.	less than carlots
liq.	liquid
m.a.p.	mixed anilin point
min.	minimum
m.p.	melting point
N.	nitrogen
nat.	natural
neut.	neutral
NF.	National Formulary
NNR.	New and Nonofficial Remedies
No.	number
nom.	nominal
ord.	ordinary
oz.	ounce
Pac.	Pacific
pf.	proof.
phos.	phosphate
photo.	photographic
pkgs.	packages
powd.	powdered
precip.	precipitated
prod.	producer
pt.	point
pulv.	pulverized
purif.	purified
redist.	redistilled
refd.	refined
refy.	refinery
reg.	regular
resub.	resublimed
ret.	returnable
SD.	specially denatured
s.d.	single distilled
S. E.	southeast
secs.	seconds
s.g.	specific gravity
shipt.	shipment
solut.	solution
s.u.	standard unit
synth.	synthetic
tanks.	railroad tankcars
tech.	technical
USP.	U. S. Pharmacopoeia
vis.	viscosity
VM&P	varnish makers & painters
W.	west
whse.	warehouse
w. w.	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, Nitric, 40°Be—Alcohol, Ethyl

Acid, nitric, 40° Be, cbys., c.l., works, E 100 lbs. 6.25 - —
i.c.l., works, E 100 lbs. 6.55 - 7.35
42° Be cbys., c.l., works, E, 100 lbs. 6.75 - —
i.c.l., works, E 100 lbs. 7.05 - 7.85
58.5 to 68% HNO_3, tanks, works, basis 100% 100 lbs. 3.40 - —
94½ to 95½% HNO_3, tanks, works,, basis 100% 100 lbs. 4.40 - —
CP NF, consumers, cbys., extra c.l., works lb. .13½ - —
i.c.l. same basis lb. .15 - .15½
5 pint bottles, extra, cs., c.l., same basis lb. .17½ - —
i.c.l., same basis lb. .19 - .25
p-Nitrobenzoic, dms., works lb .77 - —
Oleic, single distilled, dms lb. .16 - .17¾
tanks lb. .14¼ - —
double dist. (white), dms lb. .18½ - .20¼
tanks lb. .16¾ - —
Oleum (see Acid, sulphuric, fuming)
Orthochlorobenzoic (see Acid, o-Chlorobenzoic)
Orthocresotinic (see Acid, 2, 3-Cresotic)
Oxalic, bbls., c.l., works lb. .16½ - —
10,000-lb. lots, works lb. .16¾ - —
smaller lots, works lb. .17¾ - —
b-Oxynaphthoic, bbls., works lb. 1.14 - —
Palm oil, double dist., dms lb. .12¼ - .14
Para-aminobenzoic (see Acid, p-Aminobenzoic)
Para-aminosalicylic (see Acid, p-Aminosalicylic)
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid, p-Nitrobenzoic)
Paratoluidinmetasulphonic (see Acid, p-Toluidine m-sulfonic)
Phenylacetic, pure, cryst., cns. lb. .75 - 1.70

Acid, phenylcinchoninic (see Cinchophen).
Phenylglycolic (see Acid, mandelic).
Phosphoric, toon grade, 75%, cbys, c.l., works 100 lbs. 7.30 - —
i.c.l., works 100 lbs. 7.80 - 8.30
tanks, works 100 lbs. 5.10 - —
NF, 85%, cbys., c.l., works lb. .08½ - —
i.c.l., works lb. .09 - .09½
Picric, NF, bbls lb. .55 - —
dms, smals lb. .81 - .87
tech., bbls lb. .32 - .33
Propionic, synth. pure, dms., c.l., works lb. .21 - —
i.c.l., works lb. .22 - —
tanks, works lb. .19 - —
Pyrogallic, NF, (see Pyrogallol)
tech., bbls lb. 2.76 - 2.90
Pyroligneous, dms., incl., i.c.l., works gal. .36 - —
whse. gal. .50½ - —
Ricinoleic (see Acid, castor oil, split).
S. bbls., works lb 3.25 - —
Salicylic, crude, bgs lb. .38 - —
sublimed, tech., bbls., c.l. lb. .39 - —
i.c.l. lb. .46 - —
dyestuffs grade, bbls lb. .41 - —
USP, cryst., bbls lb. .48 - —
powder, bbls lb. .53 - —
Sebacic, purified, dms., c.l., works lb. .69 - —
i.c.l., works lb. .71 - .75
Soybean oil, double dist., dms lb. .15½ - .17¼
tanks lb. .14¼ - —
single dist., dms lb. .15 - .16¾
tanks lb. .13¾ - —
Stearic, double pressed, bgs lb. .15 - .16¾
single pressed, bgs lb. .14½ - .16¼
triple-pressed, bgs lb. .17¼ - .19
Succinic, purified, cryst., bbls., works lb. .62 - .75

Acid, sulfanilic, tech., dms., c.l., frt. alld lb. .19 - —
i.c.l., frt. alld lb. .21 - —
Sulfuric, 60° Be, cbys., c.l., works 100 lbs. 2.00 - —
i.c.l., works 100 lbs. 2.45 - —
tanks, works ton 18.60 - —
66° Be, cbys., c.l., works 100 lbs. 2.25 - —
i.c.l., works 100 lbs. 2.55 - 3.35
tanks, works ton 22.35 - —
98%, tanks, works ton 23.50 - —
99-100%, tanks, works ton 23.95 - —
CP, NF, consumers cbys, extra, c.l., works frt. equald lb. .09¾ - —
i.c.l., same basis lb. .11¼ - .11¾
5 pt. bots., extra, cs., c.l., works, frt. equald lb. .13¼ - —
i.c.l., same basis lb. .14¾ - .20¼
oleum, 20%, tanks, works ton 25.00 - —
40% tanks, works ton 29.00 - —
65% tanks, works ton 39.50 - —
Tallow, dist., dms lb. .13¼ - .15
hydrogenated, dms lb. .14¼ - .16
Tannic, NF, fluffy, bbls., 1,000-lb lots lb 1.50 - 1.60
smaller lots lb 1.65 - 1.70
powder, bbls., 1,000-lb lots lb 1.50 - —
smaller lots lb. 1.51 - 1.60
tech., dms lb. .95 - —
Tartaric, USP, dom., 230 or 250-lb., dms., c.l. lb. .37 - —
10,000-lb. lots, 1 ship't. lb. .37½ - —
smaller lots lb. .38 - —
100-lb dms lb. .39 - —
small dms lb. .41 - .47
imported, bgs. lb. .31 - —
Thioglycolic, refined, bgs., cbys., basis 100% lb. 1.60 - 1.66
Tobias, bbls., frt. alld lb. .74 - —
p-Toluenesulfonic, dms., c.l., works. lb. .16 - —
i.c.l., works lb. .17¼ - —

Acid, p-toluidine-m-sulfonic, bbls., works lb. .92 - 1.04
Trichloroacetic, bots. lb. 2.00 - 2.50
Trichlorophenoxyacetic (see under "T" 2,4,5T)
Tungstic, tech, 99.9%, kgs., works, lb. 4.25 - 4.75
Undecylenic, dms. lb 1.40 - —
Aconite root, bls lb. .50 - .55
Aconitine, amorph., mild, bots oz. 27.50 - 32.50
cryst., potent, bots oz. 78.00 - 85.00
Acrolein, tech., dms., c.l., works lb. .47 - —
i.c.l., works lb. .47½ - —
Acrylonitrile, dms., c.l., works lb. .33 - —
i.c.l., works lb. .34 - —
tanks, works lb. .31 - —
ACTH, bots gm. 20.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH).
Agar, USP, Kobe No. 1, strip, bls. lb. 3.50 - —
powdered, 30 mesh., fib., dms. lb. 3.85 - 3.95
dl-Alanine, dms., works lb. 8.50 - 11.00
Albumen (egg), edible, flake, bbls. lb. 1.88 - 1.90
powder, bbls lb. 1.92 - 1.94
tech., cryst., bbls lb. 1.03 - 1.06
Albumin, blood, dark (see Blood, dried, soluble)
light, dms., i.c.l. lb. .65 - .90
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd lb. .32 - —
i.c.l., dlvd lb. .33 - —
tanks, dlvd lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, ref.)
fermentation, ref'd., 126°-132°C., dms., c.l., dlvd lb. .32¾ - —
i.c.l., dlvd lb. .33¾ - .36
tanks, dlvd lb. .31 - —
128-132° C. dms. i.c.l. dlvd. lb. .33¾ - .36
ACS grade, dms., i.c.l., dlvd lb. .35¾ - —
mixed, primary, dms., c.l., works lb. .20¼ - —
i.c.l., works lb. .21¼ - —
tanks, works lb. .18¼ - —
1-pentanol (synthetic normal), dms., c.l., works lb. .42 - —
i.c.l., works lb. .43½ - —
tanks, works lb. .40 - —
2-pentanol, dms., c.l., works lb. .65 - —
i.c.l., works lb. .70 - —
tanks, works lb. .60 - —
n-synthetic, dms., c.l., frt. alld., lb. .17 - —
i.c.l., frt. alld lb. .18 - —
tanks, frt. alld lb. .15 - —
sec-synthetic, dms., c.l., frt. alld., works lb. .19 - —
i.c.l., works lb. .20 - —
tanks, works lb. .17 - —
tert-synthetic, dms., c.l., frt. alld. E lb. .20 - —
i.c.l., frt. alld. E lb. .21 - —
tanks, frt. alld. E lb. .18 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms., dlvd lb. .47½ - .49
n-Butyl fermentation, dms., c.l., frt. alld lb. .15 - —
i.c.l., frt. alld lb. .16 - —
tanks, frt. alld lb. .13 - —
n-synthetic, dms., c.l., dlvd. lb. .15 - —
i.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .13 - —
sec-synthetic, dms., c.l., dlvd. lb. .13 - —
i.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11 - —
tert-synthetic, dms., c.l., frt. alld. lb. .14 - —
i.c.l., frt. alld lb. .15 - —
tanks, works lb. .12 - —
Capyrl, 85%, dms., c.l., works lb. .18 - —
i.c.l. works lb. .18½ - —
tanks, works lb. .16½ - —
95%, dms., c.l., works lb. .19½ - —
i.c.l., works lb. .20 - —
tanks, works lb. .18 - —
Cetyl, extra fib, cns., 500-lb lots or more lb. .73 - —
smaller lots lb. .80 - 1.15
NF, fib, cns., 140-lb lots or more lb. .58 - .82
smaller lots lb. .59 - .82
Cinnamic, bots lb. 2.15 - 2.75
Decyl, bots lb. 1.75 - 2.00
Industrial (see 1-Decanol).
Denatured, CD12, CD13, CD14, CD17, dms., c.l., dlvd. E. of Rockies gal. .57½ - —
i.c.l., dlvd., same basis gal. .62½ - .68¼
tanks, dlvd., same basis gal. .44½ - —

Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.

Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .59 - —
i.c.l., same basis gal. .64 - .70
tanks, same basis gal. .46 - —

Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.

SD1, dms., c.l., dlvd. E. of Rockies gal. .58½ - —
i.c.l., same basis gal. .63½ - .69¼
tanks, same basis gal. .45½ - —
SD2B, dms., c.l., dlvd. E. of Rockies gal. .57 - —
i.c.l., same basis gal. .62 - .68
tanks, same basis gal. .44 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .56 - —
i.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD23A, dms., c.l., dlvd. E. of Rockies gal. .58½ - —
i.c.l., same basis gal. .63½ - .69¼
tanks, same basis gal. .45½ - —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .59 - —
i.c.l., same basis gal. .64 - .70
tanks, same basis gal. .46 - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .57½ - —
i.c.l., same basis gal. .62½ - .68¼
tanks, same basis gal. .44½ - —
SD30, dms., c.l., dlvd. E. of Rockies gal. .56 - —
i.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD35A, dms., c.l., dlvd. E. of Rockies gal. .59 - —
i.c.l., same basis gal. .64 - .70
tanks, same basis gal. .46 - —
SD40, dms., c.l., dlvd. E. of Rockies gal. .57 - —
i.c.l. same basis gal. .62 - .68
tanks, same basis gal. .44 - —
Diacetone, acetone-free, dms., c.l., dlvd. lb. .14 - —
i.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13¼ - —
i.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11½ - —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies. gal. 20.51 - —
i.c.l., same basis gal. 20.56 - 20.62
tanks, same basis gal. 20.38 - —
tax free, dms., c.l., dlvd. E. of Rockies gal. .56 - —
i.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
absolute, 200 pf., tax paid, dms., gal. 21.61 - —
i.c.l., same basis gal. 21.66 - 21.72
tanks, same basis gal. 21.48 - —
c.l., dlvd. E. of Rockies,

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Alcohol, 2-ethylbutyl, dms., c.l., works lb. .29½ - —
l.c.l., works lb. .30 - —
tanks, works lb. .28 - —
2-Ethylhexyl, dms., c.l., dlvd. E lb. .25½ - —
l.c.l., same basis lb. .26½ - —
tanks, same basis lb. .23½ - —
Furfuryl, tech., cns., works lb. .20 - —
dms., c.l., works lb. .21 - —
l.c.l., works lb. .22 - —
tanks, works lb. .184 - —
Isoamyl (see Alcohol, amyl, fermentation, refined).
Isobutyl, dms., c.l., dlvd. lb. .13¾ - .14
l.c.l., dlvd. lb. .14½ - .15
tanks, dlvd. lb. .13 - —
Iso-octyl, dms., c.l., dlvd. lb. .23½ - —
l.c.l., dlvd. lb. .24¼ - —
tanks, dlvd. E lb. .21¾ - —
Isopropyl, refd., 91%, dms., c.l., dlvd. gal. .50½ - —
l.c.l., dlvd. gal. .57½ - —
tanks, dlvd. gal. .37½ - —
95%, dms., c.l., dlvd. gal. .52¾ - —
l.c.l., dlvd. gal. .59¾ - —
tanks, dlvd. gal. .39¼ - —
99%, dms., c.l., dlvd. gal. .53 - —
l.c.l., dlvd. gal. .62 - —
tanks, dlvd. gal. .42 - —
Lauryl, bots. lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Carbinol, methyl-isobutyl)
Octyl, perfumer's grade, bots lb. 1.75 - 3.25
technical (see Octanol normal)
2-Phenylethyl, extra, dms. lb. 1.57 - 2.15
standard, dms. lb. 1.35 - —
n-Propyl, dms., c.l., dlvd. lb. .12 - —
l.c.l., dlvd lb. .13 - —
tanks, dlvd. lb. .10 - —
Polyvinyl, various grades, bgs., ton lots, works lb. .72½ - .76
smaller lots works lb. .77½ - .81
Tetrahydrofurfuryl, cns., Cedar Rapids, Iowa lb. .54 - —
dms., c.l., Niagara Falls, N. Y. lb. .44½ - —
l.c.l., Newark, N. J. lb. .47 - —
tanks, Niagara Falls, N. Y lb. .43 - —
industrial grade, dms., c.l., Niagara Falls, N. Y lb. .305 - —
l.c.l., Newark, N. J. lb. .33 - —
tanks, Niagara Falls, N. Y. lb. .29 - —
Wood (see Methanol).
Aldol, 95%, dms., works lb. .23 - —
denaturing grade, dms gal. 2.15 - —
Aldrin, 60% solut., dms., c.l. works frt. alld lb. .538 - —
l.c.l., works, frt. alld lb. 755 - —
Aletris root, bgs. lb. 1.75 - 1.85
Algin (see Sodium alginate).
Allethrin, 100% dms., frt., alld lb 32.00 —
90%, dms., frt. alld. lb. 28.80 - 29.15
solution, 20% dms. 100-lb lots frt. alld. lb. 6.50 - 6.80
2½%, dms., frt. alld. lb. .90 - 1.25
Allspice (see Pimento).
Allyl bromide, cnys., works lb. 1.35 - 1.40
Chloride, dms., c.l., dlvd. lb. .17 - —
l.c.l., dlvd. lb. .18 - —
tanks, dlvd lb. .15 - —
Starch, solid dms., works lb. .52¾ - .54¼
solution, 40% toluol-butanol, dms., works lb. .25½ - .26¼
Aloe, Cape, cs lb. .29 - .32
powdered, cs. lb. .38 - .45
Curacao, kgs. lb. .50 - .55
Socotrine, kgs. lb. No prices
Aloin, USP, bbls., dms., kgs lb. 3.75 - 3.82
Alphanapthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphapinene (see a-Pinene).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
lump, dms., works 100 lbs. 5.05 - —
powd., dms., works 100 lbs. 5.20 - —
USP, burnt dms lb. .20 - .21
hydrous, dms lb. .07¾ - .08
Potassium, gran., bgs., works. 100 lbs. 4.53 - —
lump, dms., works 100 lbs. 5.30 - —
powd., dms., works 100 lbs. 5.45 - —
USP, burnt dms lb. .20 - .21
hydrous dms lb. .07¾ - .08
Potash-chrome, dms. lb. .17 - —
Sodium, dms., c.l., works 100 lbs. 4.60 - —
l.c.l., works 100 lbs. 5.00 - —
Alumina, calcined, bgs., c.l., works. lb. .0385 - —
l.c.l., works lb. .0410 - .0510
Aluminum acetate, basic solut., 24%, bbls., l.c.l. works lb. .14 - —
Chloride, com'l, anhyd. dms., c.l., works, frt. equald lb. .15 - —
l.c.l., works, frt. equald. lb. .1550 - —
cryst., dms., c.l., works lb. .1030 - —
l.c.l., works lb. .1070 - —
solution, 32° cbys., c.l., works. lb. .0369 - —
l.c.l., works lb. .0435 - .0560
tankcars, works 100 lbs. 2.80 - —
NF, gran. dms. works lb. .29 - .31
Fluoride, tech., anhyd., bgs., c.l., works lb. .1540 - —
l.c.l., works lb. .1640 - .1890
Aluminum fluoride, tn fib. dms., 0.35c. per lb. higher.
Formate, basic solution, cbys lb. .09½ - —
l.c.l works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald ton. 60.00 - —
l.c.l., works ton. 65.00 - 85.00
light bgs dlvd lb. .17 - —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3 fib dms., works lb. .22 - —
contract, works lb. .21 - —
8-9½% Al_2O_3 fib dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib., dms., works lb. .82½ - —
contract, works lb. .79½ - —
powder, tech (see Aluminum hydrate).
Laurate precip., dms lb. .44 - —
Metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .21½ - —
pigs, 10,000-lb. lots, frt. alld. lb. .20 - —
Oxide, amorphous (see Alumina, calcined).
Paste, lining, extra-fine, dms lb. .63½ - —
standard, dms lb. .43 - —
Powder, lining, extra fine, dms lb. 1.02½ - —
standard, dms lb. .72 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c per lb for 100-lb. drm., 1½c. per lb for 50-lb drm, 3c. per lb. for 10-lb. can and 5c to 12c per lb for smaller containers. Deduct 1c per lb for single shipment of 400 to 1,499 lbs. 2c for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs or over.

Resinate, precip., dms., frt. alld. lb. .27½ - —
Stearate, dibasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
monobasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
tribasic ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37

Aluminum sulfate, com'l, bulk, c.l., works, 100 lbs. lb. 1.85 - —
ground, bgs., works ton. 37.00 - —
lump, bgs., works ton. 40.00 - —
iron-free, bgs., c.l., works, frt. equald. 100 lbs. 3.55 - —
l.c.l., works, frt. equald 100 lbs. 3.95 - —
USP, gran., dms., works lb. .13 - .15
powd., dms., works lb. .14 - .16
Trihydrate heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bois oz. 8.00 - 10.00
Aminoazotoluene, tech., bbls. lb. 1.03 - 1.18
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .46½ - —
l.c.l., dlvd lb. .47½ - —
tanks, dlvd lb. .45 - —
2-Amino-2-methyl-1-propanol, cns., dms., works lb. .60 - —
Aminophylline, USP, 100-lb. dms. lb. 3.05 - —
Aminopyrine, USP, bots., dms. lb. 4.75 - —
Ammonia, anhydrous, fertilizer, tanks, works ton. 85.00 - 88.00
pure, cycls, extra, zone 1 lb. .18½ - —
2 lb. .19 - —
3 lb. .19½ - .20
4 lb. .20 - —
5 lb. .21 - —
refrigeration tanks, works ton. 87.50 - 90.50
Aqueous (29.4% NH_3), dms., c.l., dlvd., Met area 100 lbs. 3.60 - —
l.c.l., works 100 lbs. 4.00 - —
tanks, works, anhyd. basis. ton. 96.00 - —
Ammoniac, sal, gray, bgs., c.l., works, frt. equald. 100 lbs. 8.25 - —
l.c.l., same basis 100 lbs. 8.65 - 11.15
white gran. (see Ammonium chloride, tech.)
Ammoniacal liquor, tankcars, works, anhyd. basis ton. 96.00 - —

Alcohol, 2-Ethylbutyl—Ammonium Thiocyanate

Ammonium acetate, purified, dms. lb. .38 - —
Benzoate, USP, dms. kgs. 4.000 lb lots frt. alld lb. .80 —
smaller lots, frt. alld lb. .81 - 1.08
Biborate, bbls., c.l., works ton. 312.00 —
ton lots ex whse ton. 375.00 - —
smaller lots, ex whse ton. 380.00 - —
Bicarbonate, dom., dms., c.l., works lb. 6.50 - —
l.c.l., works lb. 7.50 - —
imported dms. l.c.l lb. .07¼ - .08¼
Bichromate, bbls, works lb. .42 - .43
Bifluoride, dms., dlvd. lb. .2145 - .2245
Bromide NF, gran. bbls lb. .38 - .39
dms. lb. .39 - .42
Powdered ammonium bromide 10c per lb higher
Carbonate, USP lump, powd., dms lb. .23 - .24
Chloride, tech., white granular, bgs., c.l., works 100 lbs 5.25 - —
l.c.l., works 100 lbs. 7.00 - —
USP, gran., bbls., dms lb. .17¼ - —
Citrate, dibasic bbls lb. .75 - —
dms lb. .80 - .85
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia aqua).
Hypophosphite, NF, dms. lb. 2.40 - —
Iodide, NF, dms., bots lb. 4.26 - 4.38
Linoleate, 80%, dms., works lb. .50 - .55
Nitrate, fertilizer grade, Canadian eastern, 32.5% N, bgs., c.l., shipping point ton 77.50 - —
western, 33.5% N., bgs., f.o.b. cars, Los Angeles ton. 89.84 - —
Nitrate, fertilizer grade, domestic, bgs., western, 33.5% N, works ton. 68.00 - 70.00
with dolomite 20.5% N, bgs., Hopewell, Va ton. 51.00 - —
Oxalate, fine gran., dms lb. .26½ - .31
Pentaborate, gran., bbls., c.l., works ton. 222.00 —
ton lots ex whse ton. 285.50 —
smaller, lots, ex whse ton. 290.00 - —
Ammonium pentaborate powder, $10 per ton higher
Perchlorate, kgs., works lb. .50 .73
Persulfate, kgs lb. .38 - —
Phosphate, com'l bgs., c.l. works, frt. equald lb. .08½ - —
l.c.l., same basis lb. .09 - —
dibasic, NF V bots, dms lb. .45 —
tech., bgs., c.l. works, frt. equald lb. .08½ - —
l.c.l., same basis lb. .09 —
Salicylate, NF, dms., kgs. lb. 1.62 1.64
Silicofluoride, dms works lb. .11 .12
Sulfamate, bbls., dms., works lb. .18 - .20
Sulfate, coke-oven, bulk, producing ovens ton. 44.00 - 47.00
synthetic, bgs., c.l. western works ton. 49.50 - —
bulk, works ton. 45.00 - —
purified, dms., works lb. .08½ - .10
Sulphide, liq., 40-44%, dms., c.l., frt. equald, basis 100%. ton. 240.00 - —
l.c.l., basis 100%, works. ton. 300.00 - —
tanks, frt. alld ton. 180.00 - —
Sulfocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .18 - —
l.c.l., works lb. .20 - .22

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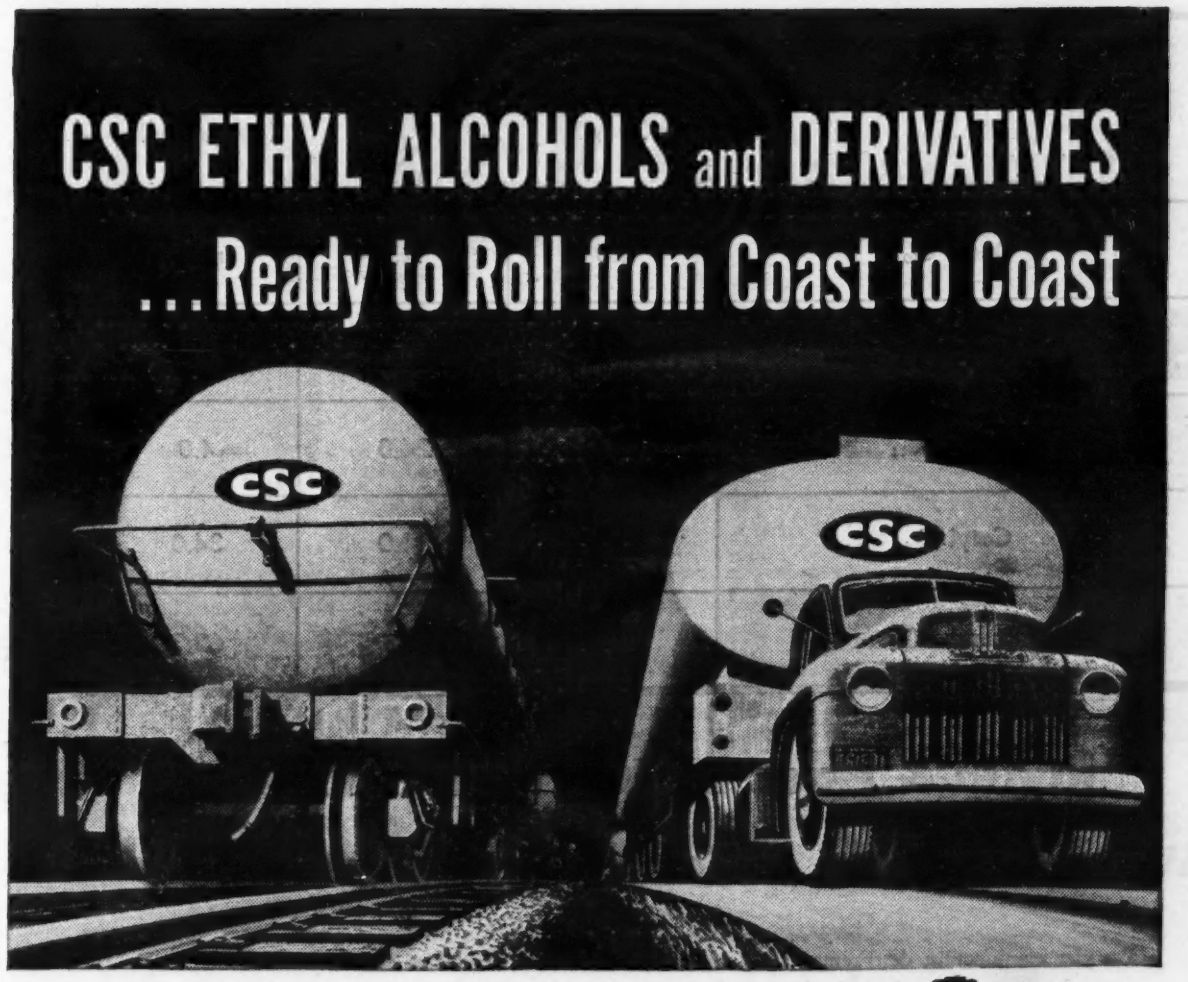

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Rossville Gold Shield® U.S.P.
Shellacol®
Quixol® Quakersol®

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Dibutyl Phthalate	Formaldehyde N.F.
Tributyl Phosphate	Pentaerythritol
Methanol	Acetone
Ammonia	Methylamines

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Ammonium Thioglycollate—Black, Bone

Ammonium thioglycollate, com'l., cbys., basis 100%..lb. 1.60 - —
highly purified, cbys., basis 100%..lb. 1.70 - 1.95
Thiosulfate, cryst., photo grade, fib dms., frt. alld..lb. .65 - —
60% solution, dms., c.l., works..lb. .06½- —
Amphetamine hydrochloride dibasic, dextro, bots..lb.28.00 - —
dextro-laevo, dms..lb 6.00 - —
monobasic, dextro, bots..lb.28.00 - —
Phosphate, dibasic, dextro, bots.lb.28.00 - —
dextro-laevo, dms..lb 6.00 - —
Sulfate, dextro, dms..lb.28.00 - —
dextro laevo, dms..lb 6.00 - —
Amyl acetate, ex fusel oil, tech., frt. alld. E. of Rockies..lb. .17 - —
l.c.l., same basis..lb. .18 - —
tanks, same basis..lb. .15 - —
ex pentane, dms., c.l., frt. alld. E. of Rockies..lb. .17 - —
l.c.l., same basis..lb. .18 - —
tanks, same basis..lb. .15 - —
Alcohol (see Alcohol amyl).
n-Butyrate, dms..lb. .90 - 1.05
Cinnamic aldehyde, dms..lb. 1.05 - 2.00
Nitrite, USP, bots..lb. 1.75 - 1.83
Salicylate, cns., dms..lb. .74 - 1.05
Anethole, NF, cns., dms..lb. 1.25 -1.55
tech., dms..lb. .75 - 1.20
Angelica root, dom., bls..lb. .60 - .70
Aniline oil, dms., c.l., works, frt. alld..lb. .21 - —
l.c.l., works, frt. alld..lb. .22 - —
tanks, works, frt. alld..lb. .20 - —
Salt, dms., frt. alld..lb. .33 - —
Anise, Mexican, bgs..lb. .22 - .23
Spanish, bgs..lb. .22 Nom.
Syrian..lb. .20 - —
Turkish, bgs..lb. .26 Nom.
Anisic aldehyde, bots., dms..lb. 1.80 - 2.70
Annatto seed, whole, bgs..lb. .24 - —
powdered, dms..lb. .28 - —
Anthracene, 90-95%, bbls., ton-lots, works..lb. .80 - —
smaller lots, works..lb. .85 - —
Anthraquinone, 99.5%, bbls., frt. alld..lb. .88 - —
Antimony butter (see Antimony trichloride)
Metal, bulk, c.l., mines..lb. .28½- —
cases, c.l., mines..lb. .29 - —
Oxide, bgs., c.l., frt. alld..lb. .26 - —
l.c.l., frt. alld..lb. .27½- —
Sulfide, approx. 60%, bgs., dlvd. lb. .27 - .30
Trichloride anh., pails, c.l., works..lb. .38½- —
l.c.l., works..lb. .40½- —
Antimony-potassium tartrate (see Tartar emetic.
Antipyrine, NF, dms..lb. 2.50 - 2.70
Apomorphine hydrochloride, USP, bots..oz.23.40 -23.90
Areca nuts, powd., bbls..lb. .15 - .16
Arecoline hydrobromide, NF, bots. tins..oz. 4.50 - 6.00
l-Arginine monohydrochloride, leavo, dms., 1-kilo. lots kilo.72.00 - —
Argols, min. 50%, bgs., shipment ports, per 100 kilos, basis 100% No prices
Arnica flowers (true montana), bls..lb. .70 - .71
Arsenic metal, lump, bbls., prompt ship't..lb. .70 - —
Trioxide, USP, dms..lb. .48 - —
White, powd., bbls., c.l., dlvd..lb. .05½- —
l.c.l. dlvd..lb. .06½- .07½
Asafetida, cs..lb. .36 - .39
powd., bbls., dms..lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines..ton.1,300.00- —
No. 2, c.l. (20 tons), mines.ton.675.00 - —
Run-of-mine, c.l., (20 tons), mines..ton.556.00 - —
3K, c.l. (20 tons), mines..ton.436.00 - —
3R, c.l. (20 tons), mines..ton.371.00 - —
3T, c.l. (20 tons), mines..ton.348.00 - —
3Z, c.l. (20 tons), mines..ton.321.00 - —
4K, c.l. (20 tons), mines..ton.173.00 - —
4M, c.l. (20 tons), mines..ton.173.00 - —
4T, c.l. (20 tons), mines..ton.156.00 - —
4Z, c.l. (20 tons), mines..ton.156.00 - —
5D, c.l. (20 tons), mines..ton.122.50 - —
5K, c.l. (20 tons), mines..ton.122.50 - —
5M, c.l. (20 tons), mines..ton.116.50 - —
5R, c.l. (20 tons), mines..ton.110.00 - —
6D, c.l. (30 tons), mines..ton.78.00 - —
7D, c.l. (30 tons), mines..ton.68.50 - —
7F, c.l. (30 tons), mines..ton.65.00 - —
7H, c.l. (30 tons), mines..ton.55.00 - —
7K, c.l. (30 tons), mines..ton.46.00 - —
7M, c.l. (30 tons), mines..ton.40.00 - —
7R, c.l. (30 tons), mines..ton.39.00 - —
7T, c.l. (30 tons), mines..ton.37.00 - —
7RF, c.l. (30 tons), mines..ton.40.00 - —
7TF, c.l. (30 tons), mines..ton.40.00 - —
8S, c.l., (30 tons), mines..ton.27.00 - —
Asbestos c.l. prices are in U. S. funds. L.c.l. lots, $4 per ton higher.
Asphalt, gilsonite, black, jet, bgs., c.l., Craig, Colo., Heber City, Utah..ton.34.00 - —
select, 350°F., fusing point, bgs., c.l., same basis..ton.38.00 - —
270°-295°F. fusing point bgs. c.l. same basis..ton 37.00 - —
seconds, 300° - 390°F. fusing point, not uniform, bgs., c.l., same basis..ton.34.00 - —
Asphalt, manjak, No. 10, crude, dms., works..lb. .06½- —
Petroleum, cut-back, tanks, tank-wagon, refinery..gal. .09 - —
emulsion, tanks, tank wagon refinery..gal. .09½- .10
steam-refd., less than 80 penetration tanks, tankwagon, refinery..ton.22.00 - —
80-300 penetration, tanks, tank-wagon, refinery..ton.21.00 - —
Aspirin (see Acid, Acetylsalicylic).
Atropine, USP, bots..oz. 7.00 - 8.00
Sulfate, USP, bots..oz. 4.00 - 5.00

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units..70 - —
less than 1,000,000,000 units 50,000 units..75 - —
Balm of Gilead buds, dried, bgs..lb. 1.35 - 1.45
Barberry root, bark, bags..lb. .28 - .30
Barbital, USP, 100-lb. dms..lb. 4.50 - —
Sodium, USP, dms..lb. 4.75 - 4.77
Barium carbonate, precip., bgs., c.l., works..ton.92.50 - —
smaller lots works..ton 102.50 - —
Chlorate kgs., works..lb .32 - .36
Chloride, anhyd. bgs., c.l., works..ton 158.00 - —
l.c.l., works..ton 168.00 - —
NF, cryst., dms..lb. .18 - —
Chromate, bgs., frt. equald..lb. .35 - —
Dioxide (see Barium peroxide).
Hydrate, crystals bgs..ton.190.00 -200.00
Iodide bots..lb 6.14 - —
Monoxide (see Oxide)
Nitrate, bbls c.l., works..lb. .12½- —
l.c.l., works..lb. .14 - —
Oxide grd., dms., c.l., frt. equald..ton.255.00 - —
l.c.l., works..ton.265.00 - —
Peroxide, dms., works..lb. .16 - —
Stearate, ctns., c.l., frt. alld..lb. .37 - —
l.c.l., same basis..lb. .38 - .42
Sulfate, tech. (see Barytes and Blanc fixe).
X-ray, dms..lb 14 - .14½
Sulfide, dms., c.l., works..ton.85.00 - —
l.c.l., works..ton 95.00 - —
Barytes, Southern off-color, bgs., mines..ton.25.00 - —
95.75%, bgs., mines..ton.25.00 - —
water-grd., paper bgs., c.l., f.o. St. Louis..ton.41.60 - —
ex-whse., N. Y..ton.60.10 - —
Bauxite, bulk, mines..ton. 9.50 -10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls..lb. .28 - .32
root, bls..lb. .45 - .50
Bentonite, dom., 200 mesh bgs., works..ton.14.00 - —
imported, italian, white high gel., bgs., 5 ton-lots, ex-whse..ton.80.60 - —
1 ton-lots, ex whse..ton.83.10 - —
low gel, bgs., 5 ton-lots, ex whse..ton.78.95 - —
1 ton-lots, ex whse..ton.81.45 - —
Benzal chloride, cbys., works..lb. .22 - .23½
Benzaldehyde, NF, dms..lb. .74 - 1.05
tech., cbys., dms..lb. .44 - —
Benzene (see Benzol).
Hexachloride, 25% and 99% gamma isomer (see Lindane).
tech., bgs., dms., c.l., works, gamma unit..lb. .009 - .01
l.c.l., works, gamma unit-lb. .015 - —
dust, dry, distributors, dms., c.l., dlvd., gamma unit-lb. .013 - —
l.c.l., dlvd., gamma unit-lb. .014 - —
wet, distributors, dms., c.l., dlvd., gamma unit..lb. .02 - —
l.c.l., dlvd., gamma unit-lb. .021 - —
Benzidine hydrochloride, bbls., frt. alld., basis 100%..lb. 1.00 - —
Benzocaine, dms..lb. 3.48 - 3.50
Benzol, pure or nitration, tanks, works
Bethlehem, Pa..gal. .40 - —
Birmingham district..gal. .40 - —
Chicago district..gal. .40 - —
Cleveland district..gal. .40 - —
Geneva, Utah..gal. .40 - —
Johnstown, Pa..gal. .40 - —
Lackawanna, N. Y..gal. .40 - —
Lone star, Texas..gal. .40 - —
Lorain, Ohio..gal. .40 - —
Minnequa Colo..gal. .39 - —
Philadelphia district..gal. .40 - —
Pittsburgh district..gal. .40 - —
Sparrows Point, Md..gal. .40 - —
Syracuse, N. Y..gal. .40 - —
Terre Haute, Ind..gal. .40 - —
Youngstown, Ohio..gal. .40 - —
Benzophenone dms..lb. 1.40 - 1.70
Benzonitrile, dms., c.l., works..lb. .46¾- —
l.c.l., works..lb. .47 - —
Benzotrichloride, cbys., frt. equald..lb. .18 - .20
Benzoyl chloride, cbys., dms., c.l., works, frt equald..lb. .21½- .24½
l.c.l., same basis..lb. .22½- .25½
Peroxide, pure, fib. ctns., works..lb 90 - 1.05
Benzyl acetate, f.f.c., cns., dms..lb. .62 - 1.04
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms..lb. .62 - 1.10
Chloride, tech., cbys., dms., c.l., works, frt. equald..lb. .20½- .23½
l.c.l., same basis..lb. .21½- .24½
High grade benzyl chloride, 2c. higher.
Cinnamate, cns..lb. 3.35 - 3.90
Formate, cns..lb 1.30 - 2.10
Propionate, bots..lb. 1.35 - 1.65
Salicylate, bots..lb. 1.50 - 1.85
Benzylidene acetone, bots..lb. 1.68 - 1.80
Chloride (see Benzal chloride).
Benzyl isoeugenol, cns..lb. 8.60 - 9.10
Berberine bisulfate, cns..lb.35.00 -36.25
Hydrochloride, bots..lb.35.00 -36.25
Betagammapicoline (see b,g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene)
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine).
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, technical).
Biotin cryst., bots..gram.10.00 - —
Biphenyl (see Diphenyl).
Bismuth chloride, jars..lb. 5.11 - —
Hydroxide, dms..lb 4.65 - —
Metal, bxs. ton lots..lb 2.25 - —
Nitrate, cryst., dms..lb. 2.10 - —
Oxide, anhydrous, dms..lb. 4.47 - 5.05
Oxychloride, dms..lb. 4.37 - 4.42
Phenolsulfonate, fib. dms..lb. 5.22 - —
Subcarbonate, USP, dms..lb. 3.20 - —
Subgallate, NF, fib. dms..lb. 3.15 - —
Subiodide, fib. dms..lb. 5.37 - —
Subnitrate, NF, dms..lb. 2.65 - —
Subsalicylate, USP, dms..lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd., tars..lb. 4.22 - —
Black, acetylene, bgs., c.l., works..lb. .17 - —
cs., l.c.l., ship't point..lb. .22½- .26
Ash (see Barium Sulphide).
Bone, dms., l.c.l., frt. alld..lb. .15½- .22
Pacific coast bone black prices, 2c. per lb. higher.

	DYTOL A-24 (lauryl)	DYTOL B-35 (lauryl)	DYTOL E-46 (cetyl-stearyl)
Decyl C_{10}	2.0	2.5	none
Lauryl C_{12}	68.0	62.0	none
Myristyl C_{14}	28.0	24.0	4.0
Cetyl C_{16}	2.0	11.0	34.0
Stearyl C_{18}	none	0.5	62.0

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☐ PRIMINOX Polyethoxy Amines ☐ Methylamines
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Black, carbon, channel, beads, bulk, c.l., works..lb. .07 - —
bgs., c.l., works ... lb. .0740- —
t.c.l., dlvd. or whse ... lb. .1225- —
uncompressed, regular, bgs., c.l., works lb. .12 - —
t.c.l., dlvd. or whse lb. .19 - —
furnace, fast extruding, ngs., c.l., works lb. .06 - —
ctns. t.c.l., whse lb. .10 - —
high abrasion, bulk, c.l., works, lb. .0750- —
bgs., c.l., works lb. .0790- —
t.c.l., dlvd or whse lb. .122 .125
high modulus, bgs., c.l., works, lb. .0550- —
ctns., t.c.l., whse ... lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .045 - —
bgs., cns., t.c.l., whse lb. .085 - —
Charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Iron oxide, pure, bgs., c.l., works, lb. .12¾- —
t.c.l., works ..... lb. .13 - —
Lamp, bgs., c.l., works ..... lb. .16 - .45
Mineral, bgs., works ..... lb. .0160- .0675
Blackberry root bark, bls ..... lb. .50 - —
Black haw root bark bls ... lb. .65 - .70
tree bark bls lb. .40 - .43
Blanc fixe, dry, byproduct, bgs., c.l., works ..ton.155.00 - —
t.c.l., works ..... ton.165.00 - —
direct process, bgs., c.l., works, ton.100.00 - —
t.c.l., works ..... ton.110.00 - —
N. Y. whse ..... ton.140.88 -165.00
pulp, 70%, bbls., c.l., works, ton.105.00 - —
t.c.l., works ..... ton.115.00 - —
Bleaching powder, dms., c.l., works, 100 lbs. 5.02 - —
t.c.l., works ..... 100 lbs. 6.52 - —
Blood, dried, 16-16½% ammo., bgs., unit-ton. 8.00 - —
high-grade unground, 16-17% ammon., bgs., Chicago unit-ton. 8.25 - —
soluble, bgs., c.l. ..... lb. .16½- .18
t.c.l. ..... lb. .17½- .25
Bloodroot, bls ..... lb. .60 - .65
Blue alkali, dry, bbls., dlvd. N. or Penn. and N. C., & of Miss R. including St Paul Minneapolis, Davenport, Rock Island, St. Louis lb. 2.00 - —
toner, bbls. (the flushed same basis lb. 1.15 - —
Chinese, bbls., same basis .... lb. .48 - —
Cobalt, genuine, bbls., same basis lb. 4.90 - —
Imitation (see Blue, ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda).
Methyl violet toner, molybdated, PMA, bbls., same basis lb. 2.60 - —
tungstated, PTMA, bbls., same basis lb. 3.95 - —
Milori, bbls., same basis ..... lb. .48 - —
Peacock, fugitive (00% color strength, bbls., same basis lb. .75 - —
Phthalocyanin, full strength, bbls., same basis ..lb. 3.45 - —
resinated, bbls., same basis ..lb. 3.00 - —
water dispersable ..... lb. 1.54 - —
Potash, CP, bbls, same basis lb. .56 - —
Prussian, insoluble, bbls., same basis lb. .43 - —
soluble, bbls., same basis ... lb. .43 - —
Soda, CP, bronze, bbls., same basis lb. .56 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½- .35
jobbing types, bbls., same basis, lb. .16½- .18½
regular types, dry bbls, same basis lb. .22½- .35
Victoria toner, molybdic, PMA, bbls. lb. 4.10 - —
tungstated, PTMA, bbls ..... lb. 5.15 - —
Blue dry colors dlvd prices 4c higher Ala., Fla., Ga. La (Shreveport 1¼c), Miss. N C., S C., Tenn. Tex (El Paso 2c) Cedar Rapids, Des Moines Kansas City Lincoln Omaha St. Joseph 16c higher Pac Coast Denver Pueblo, Salt Lake City Wichita frt. equalized with Chicago
Vitriol (see Copper sulphate).
Bluestone (see Copper sulphate).
Bonemeal steamed, works, E ton.55 00 - —
Bone phosphate, defluorinated (see D).
of lime (see Calcium phosphate, tribasic)
precipitate, (see Calcium phosphate tribasic, NF precip.).
Borax, tech, anhydrous, bgs., c.l., works ton.78 00 - —
ton lots ex whse, N. Y. or chi ton 125 75- —
bulk, c.l., works ... ton.70.00 - —
crystals, 99%, bgs., c.l., works, ton.67.25 - —
ton lots, ex-whse., N. Y. or Chi ton.115.00 - —
smaller lots, same basis, ton.120.00 - —
gran., decahydrate, 99½%, bgs., c.l., works ton.41.25 - —
ton lots, ex whse., N. Y. Chi ton.89.00 - —
smaller lots, same basis, ton.94.00 - —
bulk, c.l., works .... ton.35.75 - —
pentahydrate, 99½%, bgs., c.l., works ton.55.50 - —
smaller lots, same basis, ton.103.25 - —
ton lots, ex whse, N.Y., Chi ..ton.108.25 - —
powder, 99½%, bgs., c.l., works ton.46.25 - —
ton lots, ex-whse., N. Y. or Chi. ton.94.00 - —
smaller lots, same basis, ton.99.00 - —
Borax packed in kgs., $45.50 per ton higher than in paper bgs.; in barrels, $24.50 higher. USP borax $15 per ton higher.
Bordeaux mixture bgs., c.l., works, frt. alld. or nearest whse, point lb. .18 - .24
t.c.l. same basis ..... lb. .19 - .26
Borneol, cns. ..... lb. 2.50 - 4.50
Borontrifluoride gas, cyls., truckload works lb. .62 - —
less truckload, works lb. .70 - —
Brazilwood extract (see Hypernic extract)
Brimstone (see Sulfur).
Bromine, purified, cs., c.l., dlvd. E of Rockies lb. .27 - —
t.c.l., up to 1,000-lb. lots, same basis lb. .29 - —
dms., lead-lined, dlvd ..... lb. .34 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 - 2.60
cbys ..... lb. 1.52 - —
Bromstyrol bots ..... lb. 5.40 - 5.70
Bronze powder, aluminum (See A).
Brown iron oxide, pure, bgs., c.l., works lb. .13¾- —
t.c.l., works ..... lb. .14 - —
Oxide, metallic, bgs, works ....lb. .04 - —
Sap, crystals, bgs., works ..... lb. .12 - —
powdered bgs ..... lb. .13 - —

Brown, sienna, burnt, paper bgs., c.l., works..lb. .04¼- .15¼
t.c.l., works lb. .04½- .15½
raw, paper, bgs., c.l., works lb. .04½- .13
t.c.l. works ..... lb. .04¾- .13¼
Umber, burnt, American, bgs., c.l., works..lb. .06 - —
t.c.l., works ..... lb. .06¼ .07
Turkey type bgs., c.l. Boston, Bethlehem Easton, Pa., Hiwassee, Va., N. Y. lb. .06¾- —
t.c.l., works ..... lb. .07 - —
raw, American bgs. works lb. .06¼- .06½
Turkey-type, bgs., works lb. .06¾- .07
Vandyke bbls., works ..... lb. .09½- .12
Brucine, cns., 100-oz. lots ..... oz. .20 - .35
Sulphate NF, cns., 100-oz. lots oz. .15 - .30
Buchu leaves, bls. ..... lb. .45 - —
Butadiene, refined, cyls., refinery lb. .22 - —
tanks, refinery lb. .15 - —
Butane, indust., tanks, group 3 gal. .04 - —
n-Butyl acetate, fermentation, dms., c.l., frt. alld..lb. .15 - —
c.l., same basis ..... lb. .16 - —
tanks, same basis..... lb. .13 - —
n-synthetic, dms., c.l., dlvd. E. lb. .15 - —
t.c.l., same basis..... lb. .16 - —
tanks, same basis lb. .13 - —
sec-synthetic, dms., c.l., dlvd. E. lb. .12½- —
t.c.l., same basis ... lb. .13¾- —
tanks, same basis ... lb. .10¾- —
Butyl alcohol (see Alcohol butyl).
Aldehyde (see Butyraldehyde).
Chloride, dms., c.l., works..... lb. .37½- —
t.c.l., works lb. .38 —
Ether (see Ether butyl)
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .35 - —
t.c.l., same basis..... lb. .36 - —
tanks, same basis ..... lb. .33 - —

Butyl laurate, dms., works..... lb. .39 - —
Methacrylate normal, dms., less truckloads works lb. .70 - —
Oleate, refd., dms., t.c.l., works lb. .32 - —
Phenylacetate, dms ..... lb. 4.50 - 4.60
Phthalate (see Dibutyl phthalate).
Stearate, dms., t.c.l., frt. equald lb. .34 - .37½
Butylamine (see Mono-, Di- or Tri-).
Butyraldehyde, dms., c.l., dlvd..lb. .21½- —
t.c.l. dlvd..... lb. .22½- —
tanks, dlvd..... lb. .19½- —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter)
Cadmium iodide, jars ..... lb. 6.75 - 7.05
Metal ingots or sticks, cs., dlvd. lb. 1.70 - —
Stearate, dms., ton lots ..... lb. 1.42 - —
smaller lots ..... lb. 1.44 - —
Caffeine, natural, USP, cryst., dms., 100-lb. lots or more..lb. 2.65 - —
anhydrous, dms..... lb. 2.85 - —
synthetic, USP cryst., dms., 100 lb. lots or more..lb. 2.65 - —
anhydrous, dms., 100 lbs. or more..lb. 2.85 - —
Citrated, USP, dms. 100 lb. lots or more. lb. 2.65 - —
Calamine, USP, dms ..... lb. .34 - —
Calciferol, cryst., vials, 1 kilo lots, works gram. .80 - —
25 to 100 gram lots, works, gram. .90 - .95

Black, Carbon—Calcium Carbonate

Calciferol in edible oil dms., 10,000 more standard units (1 standard unit equals 1,000,000 USP units), works unit. .04¼- —
1,000 to 10,000 standard units, works unit. .05¼- —
less than 1,000 standard units, works unit .05¾- —
Calcium p-aminosalicylate, fib., dms., 1,000 lb. lots, frt. adj... lb. 7.00 - —
smaller lots, same basis ..... lb. 7.05 - 7.50
arsenate, dealers, dms., c.l., whse. works, frt. alld. on 96 lbs. or over lb. .09 - .10
t.c.l., same basis ..... lb .10 - .11
Bromide, NF, jars ..... lb. .92 - .96
Carbide, standard generator size, dms., c.l., dlvd ton.134.40 - —
Carbonate, natural, dry-grd., air floated, 99.5%—325 mesh, bgs., c.l., works ton. 7.50 -10.00
chalk, whiting, 325 mesh, bgs., works ton.32.00 -34.00
water-grd., ½ to 10 microns, bgs., c.l., works ton.30.00 - —
10 to 20 microns, bgs., c.l., works ton.17.00 -18.00
precipitated, dense, bgs., c.l., works ton 30.00 -33.00
t.c.l., works ..... ton.40.00 -46.00
medium, bgs., c.l., works ton.35.00 - —
t.c.l., works ..... ton.45.00 -50.00
surface treated, bgs., c.l., works ton.35.00 -50.00
t.c.l., works ..... ton.45.00 -65.00
ultrafine, bgs., c.l., works, ton.110.00 -160 00
t.c.l., works ..... ton.120.00 -175.00
smaller lots, same basis, ton.130.75- —

DRY BROMINE

now available in quantity . . . for use in nickel or monel pipes and valves

Now you may have it immediately . . . bromine with less than *30 parts per 1,000,000 of water*, unusually low chlorine content, too! This new extra-dry bromine will not corrode nickel or monel materially, thus eliminating need for glass pipes or valves.

For full information, for samples, or for fast, dependable supply of "dry" or regular bromine, contact Michigan Chemical Corporation at once.

MC

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EASTERN SALES OFFICE: 230 Park Avenue New York 17, New York

BASIC MANUFACTURER OF INDUSTRIAL, PHARMACEUTICAL AND AGRICULTURAL CHEMICALS

Calcium Chloride—Chlorine

Calcium chloride, cryst., purified, dms lb. .27 - —
flake, 77-80% paper bgs., c.l. works, frt. equald ton.27.00 - —
liquor 40%, tankcars works frt. alld ton.11.50 - —
pellets, bgs., c.l., works ton.33.00 - —
powder, bgs., c.l., works ton.37.65 - —
solid, 73-75% dms frt equald ton.25.50 - —
l.c.l., works same basis ton.34.00 -71.00
USP, gran., dms lb. .40 —
Chromate bgs frt equald lb 29½ .30
Cyanide dms. divu & of Rockies lb 24 .50
Gluconate, AA bbls. dms lb. .70 .72
USP, bbls., dms lb. .63 .65
Glycerophosphate, NF, fib. dms. lb. 2.30 2.45
Hydride, dms. works lb 2.20 4.00
Hypochlorite, high test, cased (45 lbs.), dlvd, E. of Rockies cs.22.60 -24.75
dms., 100-lb., same basis.dm.28.65 -32.50
Hypophosphite, dms., ton lots or less lb .90 .93
Iodide jars m 4.52 - —
Lactate USP dms., 10,000-lb lots or more works lb .40 —
smaller lots, works lb. .41 - .48
Mandelate, USP, dms., works lb. 2.10 - 2.25
Naphthenate, dq. 4% Ca, dms., frt. equald lb. .27½- —
Nitrate, tech., bbls., works lb. .13 - —
fertilizer grade, bgs., c.l., Los Angeles ton.48.00 - —
d-Pantothenate, jars, 100 gram lots or more, frt. adjusted. gram .07½- —

Calcium para-aminosalicylate (see Calcium p-Aminosalicylate).
Phenolsulfonate, dms. lb. .70 - —
Phosphate, dibasic, USP, bgs., c.l., 100 lbs. 7.10 - —
l.c.l. 100 lbs. 7.60 - 7.95
feed grade, bgs., c.l., works. ton.74.00 -84.00
l.c.l., bgs., works ton.85.00 -95.00
monobasic, bgs., 10,000-lb lots, works, frt. equald 100 lbs. 6.05 - —
smaller lots, same basis, 100 lbs. 6.55 - —
tribasic, precip., NF bgs., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 7.95 - —
Phytate, bgs., works lb. .37 - —
Resinate, precip., dms., frt. alld., works lb. .27¾- —
Silicate, hydrated, bgs., c.l., works. lb. .06 - —
l.c.l., works lb. .06½- —
Stearate, ctns., c.l. lb. .35 - —
l.c.l. lb. .36 - .40
Sulphate (see Gypsum)
Calcium-strontium sulfide, phosphorescent steel pails, 100 to 999 lb. lots, works.lb. 2.60 - 3.50
fine particle size, same basis, works lb. 2.63 - 3.75
Calomel, USP powd dms. lb. 4.02 - 4.05
Camphene, 46° m.p., dms., incl., c.l., works lb. .1930- —
l.c.l., same basis lb .1980- .2115
tanks, same basis lb .1660- —
Chlorinated, 67-69% (see Toxaphene).

Camphor monobromated, NF, dms., kgs lb. 3.00 - 3.12
natural, USP, powd., bbls., 100-lb. lots lb. .51 - .53
tablets, 1-oz., ½ oz., cs lb. .63 - .65
synthetic, tech., bbls., 10 bbls., 1,500-lb. lots lb. .55½- —
smaller lots lb. .56 - .66
USP gran. powd. bbls. 2,000-lb. lots lb. .57 - —
1,000-lb. lots lb. .58 - —
smaller lots lb. .59 - —
tablets, tins, 2,000-lb. lots lb. .90 - —
1,000-lb. lots lb. .91 - —
smaller lots lb. .92 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb 2.00 - 2.05
powd., bxs. lb 2.25 - 2.30
Russian, bgs. lb 4.00 - 4.05
powd., bxs. lb 4.35 - 4.40
Capsicum (see Pepper, red).
Oleoresin NF from domestic pepper, dms. lb. 4.75 - 5.75
from African pepper, dms lb. 4.75 - 6.25
Caraway seed, Dutch, bgs. lb. .15 - .15½
Carbazole, 97%, bbls. ton lots, works lb. 1.03 - —
Carbinol, methylisobutyl, dms., c.l., dlvd lb. .15 - —
l.c.l. same basis lb. .16 - —
tanks, same basis lb. .13 - —
Carbon bisulfide, 55-gal. dms., c.l., works, frt. alld competitive points lb. .0750- —
l.c.l., same basis lb. .0850- —
5-gal. dms., c.l., same basis lb. .1025- —
l.c.l., same basis lb. .1125- —
tankcars same basis lb. .0525- —
Dioxide, industrial, wholesale, bulk ton.73.00 -115.00
cyls. lb. .06 - —
solid lb. .035 - .040

Carbon tetrachloride, CP, dms., works lb. .11 - .13¾
works lb. .11 - .13¾
lb. .17 - .18
NF, chys lb. .17 - .18
tech., dms., c.l., E. of Rockies, frt. alld lb. .0925- —
W. of Rockies, f.o.b., stock-points lb. .0975- —
l.c.l., E. of Rockies, frt. alld. alld lb. .115 - —
W. of Rockies, f.o.b. stock-points lb. .12 - —
tanks, E. of Rockies, frt. alld. lb. .0825- —
W. of Rockies, f.o.b. stock-points lb. .0875- —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb. 4.00 - 4.25
smaller lots, works lb 4.10 - 4.75
Cardamom fruit, fancy, bleached, A, cs. lb. 3.60 - —
medium, cs. lb. 3.30 - —
decorticated, Alleppey, cs. lb. 2.10 - —
Guatemalan, cs. lb. 1.94 - —
green, Alleppey, bgs. lb. 2.30 - —
Ceylon, bgs. lb. 2.25 - —
seed (see Cardamom fruit decorticated).
Carmine, No. 40, NF, bulk, 100 lb. lots or more, dlvd lb. 6.50 - —
smaller lots, dlvd lb. 6.65 - 7.15
Carotene, technical, 1,350,000 A units per gram, tins, works gm. .55 - —
in carrot oil 5,000,000 to 8,000,000 A units, per lb. dms., works, million units. .18 - —
microcrystalline in oil, 400,000 A units per gram, tins, works, million units. .33 - —
Carvol, bots lb. 4.75 - 9.65
Cascara sagrada bark, bulk lb. .34 - —
Casein, dom., acid-precip, standard, bgs., 10,000-lb lots or more, ship't point lb. .28 .32
premium bgs., 10,000-lb lots or more, ship't point lb. .35 - .40
imported, Argentine acid-precip., grd., 100-bg. lots or more, duty paid lb. .21½- .23
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J lb. .22 - —
ton lots, same basis lb. .23 - —
dm. lots, same basis lb. .25 - —
Cassia, Batavia, cuttings, bls. lb. .16 - —
longstick, cracked, bls. lb. .17¾- .18
shortstick, cracked, bls. lb. .17 - .17¼
Saigon, broken, bls. lb. No stocks.
medium, bls. lb. .95 - —
thin, bls. lb. No stocks.
Castor beans, bgs., f.o.b. Brazilian ports long ton.105.00 Nom.
Oil (see Oil, castor)
Pomace, bgs., c.l., works ton.25.00 - —
Castoreum, artificial, cns lb. 9.00 - —
natural, cns lb. 5.00 - 30.00
Catechol, CP, cryst., fib. dms., works lb 2.17½ —
resublimed, dms., works lb. 4.29½- —
Catnip leaves, Southern, bls. lb. 75 - —
Celery seed, French, bgs. lb. .48½- —
Indian, bgs. lb. .18½- —
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., dlvd, lb. .43 - .46
extrusion compounds, translucent, metallic pearls, special black dms., c.l., same basis lb. .52 - —
l.c.l., same basis lb. .53 - .59
molding, composition, translucent, metallic pearls, special black, dms., c.l., frt. alld lb. .48 - —
l.c.l., same basis lb. .49 - .55
reprocessed, black, dms., l.c.l., same basis lb. .43 - .49
Acetate-butyrate flake, 17% butyryl content, standard cartons, works lb. .54 - —
27% butyryl content, standard cartons, works lb. .54 - —
38% butyryl content, standard cartons, works lb. .54 - —
50% butyryl content, standard cartons, works lb. .63 - —
molding composition, plain colors, pearls, transparents, special black, dms., l.c.l., frt. alld lb. .64 - .71
reprocessed, black, dms., l.c.l., same basis lb. .52 - .59
Triacetate, flake, ctns., works, frt. alld. on 100-lb. lots or more lb. .50 - —
Cerium hydrate, 74% CeO_2, fib. dms., 100-lb lots or more lb. 1.44 - —
77% CeO_2, fib. dms., 100-lb. lots or more lb. 1.74 - —
Oxalate, NF, bbls., bgs., works lb. 1.05 - —
Oxide, optical grade, bgs., 50-lb. lots or more, works lb. 1.85 - 1.98
smaller lots works lb. 2.03 - 2.23
Chalk (see Calcium carbonate).
Chamomile flowers, Hungarian style, cs. lb. .70 - .75
Roman cs lb. 1.00 - 1.15
Charcoal, activated, NF, fib. dms., c.l., works lb. .25 - .32
5-ton lots, works lb. .26½- .32½
smaller lots works lb. .27 - .50
Bone (see Black, bone).
Hardwood, briquets, bgs., c.l., works ton.77.00 -88.00
granular bgs., works ton.77.00 —
bulk, c.l., works ton.70.40 - —
Pinewood, gran., pcwd., bgs., c.l., works, South ton.53.50 -63.50
l.c.l., works, South ton.53.50 -63.50
lump bgs., c.l., works, South ton.50.00 - —
l.c.l., works, South ton.53.00 -67.50
bulk, c.l., works, South ton.31.50 - —
Chestnut extract, liquid, 25% tannin, bbls., c.l., works lb. .0510- —
l.c.l., works lb. .0543- —
tanks, works lb. .04¼- —
powd., 60% tannin, bgs., extra, c.l., works lb. .1092- —
l.c.l., works lb. .1165- —
Chloral, tech., 94% min., dms., c.l. works lb. .23 - —
l.c.l., works lb. .24 - —
tanks, works lb. .21 - —
Hydrate, USP, 40-lb. jars, 1,000-lb. lots lb. 1.30 - —
500-lb. lots lb. 1.33 - —
100-lb lots or less lb 1.35 - 1.40
Chloramine T, NF, bbls., works lb. .75 - 1.00
Chlorodan, agricultural, dms., pails, c.l., frt. alld lb. .65 - —
l.c.l., frt. alld lb. .66 - .73
refined, dms., c.l., frt. alld lb. .75 - —
l.c.l., frt. alld lb. .76 - .83
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb. .15½- —
l.c.l., same basis lb. .16½- —
70%, dms., c.l., same basis lb. .18 - —
l.c.l., same basis lb. .19 - —
Rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
l.c.l., works lb. .56 - —
125, 1,000 cps., ctns., c.l., works lb. .60 - —
l.c.l., works lb. .61 - .62
Chlorine, liquid, cyls., c.l., works, frt. equald lb. .09½- —
l.c.l., Met. area lb. .11 - .12¼
tanks, single units, works, frt. equald 100 lbs. 2.53 - —
multiple units, 5 cars, works, frt. equald 100 lbs. 3.80 - 3.83
3 cars, same basis 100 lbs. 3.80 - —
2 cars, same basis 100 lbs. 5.00 - —
1 car, same basis 100 lbs. 6.00 - —

THE VERSENES® "Versene" is the registered trade mark of certain synthetically prepared polyamino acids and their salts. As products of modern chelate chemistry, they form soluble, non-ionic chelates with polyvalent metallic ions and completely change their properties so that they can no longer react with other materials and be precipitated from solution by common precipitating agents.

NOW THERE ARE ELEVEN

VERSENE REGULAR (The original Versene) inactivates all metallic ions but is not especially effective for chelating iron in *alkaline* solutions, yet it is the best iron chelating agent for use in *acidic* solutions.(liquid or powder).

VERSEN-OL is the trisodium salt of N-hydroxyethylethylene diamine triacetic acid*. It is a very effective agent for chelating trivalent iron from pH7 to pH10. It forms strong 1:1 ferric chelates. After chelating the iron it will then chelate other heavy metal or alkaline earth ions.(liquid or powder).

VERSENE Fe_3 SPECIFIC is the most powerful complexing agent known for *iron* in the alkaline pH range. It also chelates copper, nickel, cobalt and zinc (47% solution).

VERSENE Fe_3 is a combination of VERSENE and VERSENE Fe_3 SPECIFIC. It complexes both iron and other metallic ions.(liquid or powder).

VERSENE-T complexes ferric and divalent metal ions including hard water salts in *any* caustic solution (55.5% solution).

VERSENE-9. This is the trisodium salt of EDTA. It has a pH of 9.3 in solution at 1% concentration. 1 gram complexes a minimum of 242 mgms. of $CaCO_3$. Its general chemical reaction is identical to Versene Regular.

VERSENE IRON CHELATE is an agricultural Versene to correct iron deficiency and cure chlorosis in citrus and other green growth occurring in *acid* soils. It is the disodium iron chelate of EDTA absorbed into inert vermiculite for convenience in application (50 lb. bags).

VERSEN-OL IRON CHELATE for agriculture is the monosodium iron complex of Versen-OL. It contains 19% min. of iron chelate calculated as NaFe EEDTA*, (4.29% Fe as Fe_2O_3). Balance inert. Cures iron deficiency in plants growing in *any* soil (50 lb. bags).

DISODIUM VERSENATE DIHYDRATE (dry powder) an Analytical Reagent grade of Versene Regular for research and analytical purposes.

VERSENATE INDICATOR (alcohol solution). Color indicator for Versenate method of water analysis.

CALCIUM DISODIUM VERSENATE (25% solution). Chemically Pure grade material for use as stabilizers in drugs, vitamins, pharmaceuticals.

LEAD DISODIUM VERSENATE (34% solution). Preformed complex for use in vinyl plastic emulsions.

The Versenes give you mole-for-mole control over cations in solution. They are made only by the Bersworth Chemical Company under processes originated, developed and patented by F. C. Bersworth. Quality-control over manufacture is so high that uniform complexing power is guaranteed.

VERSENES® — MADE FOR YOU — Gladly will we share with you our quarter-century of experience in pioneering the polyamines. Samples for experiment will be provided on request and without obligation. Ask for Technical Bulletin #2. Chemical Counsel available. Write Dept. F. Send for prices.

*PATENT PENDING

VERSENE* WATER TEST KIT. Tells total hardness in 2 minutes. Accurate to 1 gr. per gal. Versenate method. Complete with instructions $5.00 postpaid.

"Chemistry's most precise chemicals"

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Seattle, Wash., & Portland, Ore.

Braun Corporation
Los Angeles, Calif.

Chloroform, tech., dms., c.l., divd. E	lb.	.18 -	.182
l.c.l., same basis	lb.	.19 -	.20
tanks, same basis	lb.	.17 -	.171
USP, dms	lb.	.30	.35
4-Chloro-2-aminotoluene, fused, bbls.	lb.	1.38 -	—
Chlorophyll, oil soluble, 4%, not fixed, tins, pails, works	lb	4.25 -	—
copper fixed, 6½%, tins, pails, works	lb	6.25 -	—
Chlorophyll, sodium-copper, aqueous solut., 4%, dms., pails, works	lb.	3.75 -	—
8%, pails, dms., works	lb.	4.00	4.80
14% dms., works	lb.	8.90 -	—
concentrated, dom., 50%, dms., works, basis 100%	lb.	42.00 -	—
75%, dms., works, basis 100%	lb.	45.00 -	—
90%-100%, dms., works, basis 100%	lb.	45.00 -	—
imported .60%, tins, basis 100%	lb.	58.00 -	—
90%, tins, basis 100%	lb.	58.00 -	—
75%, tins, basis 100%	lb.	58.00 -	—
Chloropicrin, com'l, bots.	lb.	1.50 -	—
cyls., 150 lbs frt alld	lb	.95 -	—
100 lbs., same basis	lb.	.97 -	—
25 lbs., same basis	lb	1.22 -	—
Cholesterol, USP, fib dms., 500-lb lots	lb	6.85 -	—
Choline bitartrate, fib, dms., frt adjusted	lb	1.50	1.75
Chloride fib, dms., frt, adjusted	lb	1.50	1.75
Dihydrogen citrate, fib, dms., frt, adjusted	lb	1.50	1.75
Chromium acetate solut., 7½%, bbls. works	lb.	.08½-	—
cbys works	lb.	.10¼	—
Fluoride, bbls., works	lb.	.51 -	.52
Green (see Green, chrome).			
Oxide (see Green, chromium oxide)			
Oleate, solid, bbls	lb	49 -	—
Trioxide NF bots	lb	82 -	.89
Yellow, (see Yellow, chrome)			
Chrysarobin, USP, bots.	lb	6.50	8.00
Cinchona bark, NF, red, broken, bgs	lb.	.35 -	.40
yellow, broken, bgs	lb.	.35 -	.40
Cinchonidine, cryst., cns, 100-oz. lots	oz.	.65 -	—
Sulfate cns., 100-oz. lots	oz.	.37 -	.40½
Cinchonine cryst., cns., 100-oz. lots	oz.	.52 -	.57
Sulfate, NF, cns., 100-oz. lots	oz.	.27½-	.30½
Cinchophen, NF, heavy density, dms., frt adjusted	lb	3.70	4.05
standard density, dms., same basis	lb	3.50	3.85
Cinchophen-sodium, dms., frt, adjusted	lb	4.50	4.85
Cinnamic alcohol (see Alcohol cinnamic).			
Cinnamon, Ceylon, No. 2, bls	lb.	.43 -	.44
"0000," bgs	lb.	.55 -	—
Citral, bots., cns	lb.	3.00 -	3.75
Citronellal, bots., dms	lb.	1.85 -	2.50
Citronellol, bots., dms	lb.	2.00 -	2.55
Civet, artificial, bots	lb	13.75	15.00
natural, bots	oz.	7.50	-15.00
Clay, bail, dom., airfloated, bgs., c.l., Tenn.	ton.	19.50 -	—
crushed, bulk, Tenn	ton.	10.00 -	—
purified, bgs., c.l., Tenn	ton.	20.50 -	—
imported, airfloated, bgs., c.l., Atlantic port, long	ton.	43.00	-45.00
lump, bulk, Atlantic port	ton.	27.00	-30.00
China, dom, dry grd, airfloat 99%, 325 mesh, bgs., c.l., Georgia, works	ton.	10.00 -	—
l.c.l., Georgia, works	ton.	15.50 -	—
300 mesh, bgs., c.l., Georgia, works	ton.	13.50	-14.50
l.c.l.	ton.	35.00	-36.00
imported, white, lump, bulk, c.l., ex dock, Phila., Portland, Me.	gross ton.	20.00	-35.00
powd., bgs., c.l., ex dock	net ton	30.00	—
l.c.l., ex whse	net ton.	60.00	-65.00
Clove, Madagascar, bls	lb.	.65 -	—
Zanzibar, bls.	lb.	.70 -	—
CMC, purified, high vis (see Gum cellulose).			
standard, low vis., bgs., 23,000 lbs. or over, works, frt allowed	lb	.60	—
smaller lots, same basis	lb.	.62 -	—
medium vis. bgs. 23,000 lbs or over, works, frt. alld.	lb.	.57 -	—
smaller lots, same basis	lb	.59	—
technical high vis. 58% purity, bgs., 20,000 lbs. or more, dlvd. E., 100% basis	lb.	.58 -	—
2,000 to 20,000 lbs. dlvd. E.	lb	.58 -	—
less than 2,000 lbs. dlvd E.	lb.	.62 -	—
low vis., 80% purity, bgs., or fib. dms., 20,000 lbs. dlvd E., basis 100%	lb.	.39 -	—
less than 20,000 lbs dlvd. E., basis 100%	lb.	.41 -	—
62% purity, bgs., or fib. dms., c.l., dlvd. E., basis 100%	lb.	.39 -	—
l.c.l., dlvd. E., basis 100%	lb.	.41 -	—
58% purity, bgs., c.l., dlvd. E., basis, net weight	lb.	.34 -	—
l.c.l., dlvd. E.	lb.	.36 -	—
47½% purity, c.l., dlvd., E., basis 100%	lb.	.39 -	—
l.c.l., dlvd. E	lb.	.41 -	—
36½% purity, bgs., c.l., dlvd. E., basis net weight	lb.	.13½	—
l.c.l. dlvd E	lb	20	—

CMC prices W. of the Rockies are 1c per lb. less than dlvd. E. prices.

Coaltar crude resale dms., c.l. ex-whse	gal.	.275	.3025
l.c.l., ex-whse.	gal.	.285 -	.3135
tanks, ex works	gal.	.154	.165
refined, resale, dms., c.l., ex-whse.	gal.	.2850-	.3135
l.c.l., ex-whse	gal.	.2950-	.3245
tanks, ex whse	gal	1650-	.1760
Cobalt acetate, 23.7%, bbls., dlvd	lb.	1.37 -	—
Carbonate, 46% powd., bgs., dlv	lb.	2.23 -	—
Chloride 24.2% Co, kgs, dlvd	lb.	1.27 -	—
Hydrate, 60-61% Co, bbls., dlvd	lb.	2.90 -	—
Linoleate, fused, 8½% Co., dms.	lb.	.75¾-	—
liquid, 6% Co., dms	lb.	.61 -	—
Metal, 97-99% kgs., ex whse	lb.	2.60 -	—
Naphthenate, liquid, 6% Co., dms., dlvd	lb.	.48¼-	—
Nitrate, 20.1% Co., bbls., dlvd	lb.	1.12 -	—
Phosphate, powdered, 42.4% Co kgs., dlvd	lb.	1.79 -	—
Oxide, black, 72½-73½% Co., kgs.	lb.	1.96 -	—
70-71% Co., kgs	lb.	1.90 -	—
Resinate, fused, 3% Co., dms	lb.	.29¾-	—
Sulfate, cryst, 21% Co., dms., dlvd	lb.	.95 -	—
monohydrated, 33% Co, dms, dlvd	lb.	1.49 -	—
Tallate, 6% Co., dms., dlvd	lb.	.45 -	.53½
Cocaine, USP, cns., 100-oz. lots	oz.	15.00	—
Hydrochloride, cns., 100-oz. lots	oz.	11.75	—
Cocomeal, USP, gray, bgs	lb	.68	.90
Cocillana bark, bgs	lb.	.45	Nom.
Cocoa butter, bgs	lb.	1.12 -	—
Codeine, NF, cns., 100-oz. lots	oz.	13.25 -	—
Hydrochloride, cns., 100-oz. lots	oz	11.75	—
Phosphate, USP, cns., 100-oz. lots	oz	10.25	—
Sulfate, USP, cns., 100-oz. lots	oz.	10.75 -	—

Codliver oil (see Oil, codliver).			
Cohosh root, black, bls	lb.	.22 -	.25
blue, bls	lb.	.25 -	.28
Colchicine, USP, bots., cns.	oz.	33.50	-40.00
Colchicum root, bls	lb.	.45 -	.55
seed, bgs	lb.	.80 -	1.10
Collodion, USP, dms	lb.	.32½-	—
flexible, USP, dms	lb.	.34 -	—
Colocynth, pulp bls	lb.	.25	.30
Colombo root, bls	lb.	.20	Nom.
Copaiba balsam, cns., dms	lb.	.90 -	1.10
Copper acetate bbls, c.l. works	lb	.34¾-	—
l.c.l., works	lb	.35¾	—
Carbonate 55% bgs., works	lb.	.263	.278
Chloride anhyd., bbls, works	lb.	.39	—
crystals, bbls., works	lb.	.28¼-	—
Cyanide tech, bbls, 1,000-lb. lots or more	lb.	.619	—
smaller lots	lb.	.639	—
Gluconate cns, dms	lb.	3.00	3.24
Hydrate, dms, frt alld, E Miss.	lb.	.40¼	40¾
Metal, electrolytic, dlvd., Valley basis	lb.	.29½-	.30
Naphthenate, liquid, 8% Cu., dms., frt. alld	lb.	.21½-	—
Nitrate tech, cryst, bbls, works	lb.	.33¼-	—
Oleate, solid, 9% Cu, dms., works	lb.	.45 -	—
Oxide, black, bbls., works	lb.	.39 -	.47½
red, com'l, bbls., works	lb.	.42½	.49½
Oxychloride, bls., frt. alld	lb.	40 -	.50½
Quinolinolate fib dms	lb.	4.25	4.50
Resinate, precip., dms, frt. alld	lb.	.27¼-	—
Stearate, bgs., 5 tons to c.l., dlvd.	lb.	.37½-	—
ton lots dlvd	lb.	.38½	—
smaller lots, dlvd	lb.	.39½-	—

Copper sulfate, CP, gran., bbls., works	lb.	.1715-	—
cryst., 99%, bgs., c.l., works, 100 lbs.	100 lbs.	10.35 -	—
l.c.l., works	100 lbs.	10.60	-11.35
monohydrated, 35% dms., c.l., works	100 lbs.	17.10	-17.85
tribasic, dealers, bgs., c.l., works, frt. alld	100 lbs.	22.50 -	—
l.c.l., works	100 lbs.	23.00	-24.50
USP, gran., cryst., dms	lb.	.1715-	—
Undecylenate dms	lb	2.90	3.00
Copperas, gran, bgs, c.l., works	ton.	34.50 -	—
l.c.l., dlvd., metropolitan area,	100 lbs.	3.35 -	4.25
bbls., c.l. works	ton	40.00 -	—
bulk, c.l., works	ton	27.00 -	—
Copra, Atlantic, Gulf ports, c.i.f	ton.	205.00 -	—
Pacific ports, c.i.f	ton.	210.00 -	—
Coriander seed, Moroccan, bgs	lb.	.07½-	—
Roumanian, bgs.	lb.	.07½-	—
Corn sugar, tanners, chipped, paper bgs, c.l, 60,000 lbs min.	100 lbs	7.31 -	—
bgs., l.c.l	100 lbs.	7.46 -	—
Syrup, 42°, dms., c.l.	100 lbs	7.32 -	—
l.c.l	100 lbs.	7.47 -	—
Corrosive sublimate, NF, cryst., dms., 50 lb lots or more	lb.	3.68 -	—
gran, powd, dms., 50-lb. lots or more	lb.	3.53 -	—
Cortisone acetate, NNR, bulk	gm.	4.75 -	—
Cottonseed hull ash, 32-36% potash, bgs., dlvd., unit-ton.		1.25 -	—
Meal, 41%, sacked, mills	ton.	65.50	-66.00
36%, sacked, same basis	ton.	62.00	-63.00

Coumarin cryst, NF, cns	lb	2.94	3.15
powd, cans	lb	3.20	3.25
Cramp bark, NF, bls	lb.	.85 -	.90
Cream of tartar, NF, dom., gran. or powd, dms., c.l	lb.	.32	—
bbls, 5,000 lbs one shipment	lb.	.32½	—
smaller lots, bbls., kgs.	lb.	.33	.36
Imported, kgs.	lb.	.24	.25
Creosote carbonate, NF, bots, cbys.	lb.	3.05	3.26
Coaltar, crude, tanks, works, frt. adjusted	gal.	.22	—
solution 50% tanks, works,	gal.	.2068-	—
refined, dms., c.l., works	gal.	.3850-	—
l.c.l. same basis	gal.	.4510-	—
tanks, same basis	gal.	.2970-	—
Wood, beechwood, chys., dms	lb.	1.60	1.65
hardwood, NF, bots., cbys	lb.	1.30	1.35
pinewood, dms., works	gal.	.42½	.50½
Cresol, tech, 50% below 204° C., dry above 207° C, wide distillation range, non-ret. dms. c.l. frt equald	lb.	.133 -	—
l.c.l., same basis	lb.	.136 -	—
ret. dms., c.l same basis	lb.	.1325-	—
l.c.l., same basis	lb.	.1375-	—
tanks, same basis	lb.	.120	.1223
USP, non-ret. dms., c.l., same basis	lb.	.143 -	—
l.c.l., same basis	lb.	.146 -	—
ret dms., c.l., same basis	lb.	.140 -	—
l.c.l., same basis	lb.	.145 -	—
tanks, same basis	lb.	.120 -	—
Crotonaldehyde, 91-93%, dms., l.c.l., works	lb.	.24¼-	.25

VASTLY IMPROVES FREEZE-DRYING OF MEDICAL PRODUCTS

Due to a new technique, CO_2 is again of primary importance in freeze-drying medical products. The new method employs CO_2, not as familiar Dry Ice, but in its *liquid* state. Used in this form, CO_2 offers definite advantages over both Dry Ice and mechanical refrigeration.

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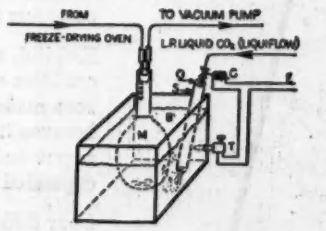
In the new process, liquid CO_2 is stored under pressure in a LIQUIFLOW* receiver. Dry Ice "snow" or liquid CO_2 is instantly available. Waste due to sublimation in storage is eliminated.

CO_2 "snow" is ideal for use in all pre-freezing operations. It is especially suitable where extremely low temperatures, —30° C. and lower, must be rapidly achieved and maintained.

* LIQUIFLOW CO_2 receiver. Unit stores liquid CO_2 at 0° F. at 300 psi. Installed and serviced by "LIQUID."

CO_2 in liquid form is an extremely efficient, *easily controlled* refrigerant



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No major capital investment involved. LIQUIFLOW* equipment is installed and serviced by The Liquid Carbonic Corporation. The LIQUIFLOW* system requires far less space than mechanical systems. Mechanical failure or breakdown is virtually impossible. No CO_2 loss in storage. *Controlled* low temperatures may be reached with extreme rapidity, simplicity and convenience.

The LIQUID CARBONIC staff of experienced technicians is always available for consultation and technical assistance in developing and modernizing freeze-drying installations.

Mail The Coupon For further information on the LIQUIFLOW* freeze-drying method

THE LIQUID CARBONIC CORPORATION
3100 South Kedzie Avenue • Chicago 23, Illinois

Please send me full particulars on the new LIQUIFLOW method of Freeze-Drying.

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Company_____

Address_____

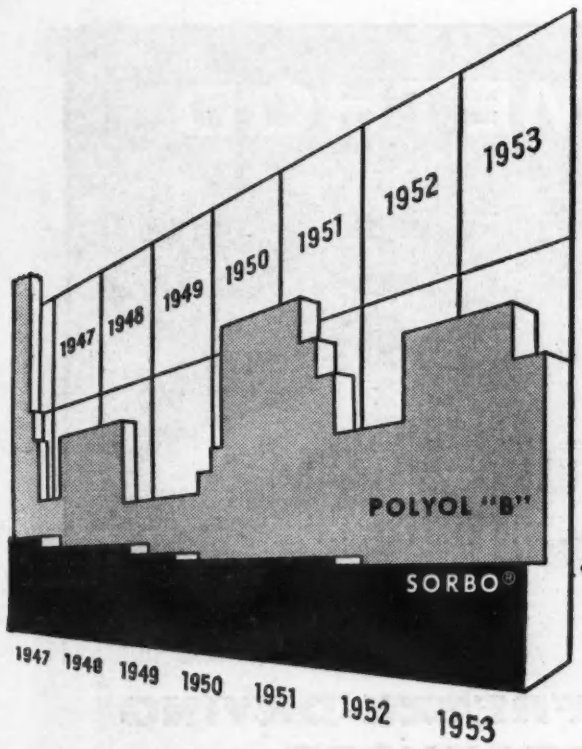
City_____ Zone_____ State_____

Cryolite—2,4-Dinitrophenol

Cryolite, sat., industrial, bgs., c.l., works 100 lbs 10.50 —
l.c.l., works 100 lbs.11.25 -11.50
Insecticide, dealers, bgs., c.l., dlvd 100 lbs.14.00 - —
l.c.l., dlvd. 100 lbs.15.00 - —
Cube root, powd., 5% rotenone, bgs., works lb. .24 - .25
Cubeb berries, XX, NF, bgs lb .50 - .51
powd., cs lb .58 - .59
Cumene, dms., c.l., works lb. .12 - —
l.c.l., works lb. .14 - —
tanks, works lb. .11 - —
Cumin seed, Iranian, bgs. lb. .15 Nom.
Moroccan, bgs lb. .15 - .15½
Turkish, bgs. lb. .13½- .14
Cutch extract, 55% tannin bgs., ex dock, duty extra lb. .08½- —
Cyanamide fertilizer mixing grades, 20.6% N, gran., bgs., Niagara Falls, Ont., contract ton.55.00 - —
pulv, 21% N, bgs., works unit-ton. 2.75 - —
Cyclohexane, tech., dms., c.l., works. gal. .70 - —
l.c.l., works gal. .72 - —
tanks, works gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28½- .37¾
l.c.l., works, same basis lb. .30 - .38¼
tanks, works, same basis lb. .27 - .36¼
Cyclohexanone, tech., dms., c.l., works lb. .33½- —
l.c.l., works lb. .35 - —
tanks, works lb. .32 - —
Cyclohexylamine, dms., c.l., works. lb. .46½- —
l.c.l., works lb. .47½- —
tanks, works lb. .45 - —
Cyclopropane, CP, 2-lb. cyls., works. cyl.48.00 - —
6 oz. cyls., works cyl.12.00 - —
USP, hospitals, cyls., 40-gal. lots gal. .38 - —
100-gal. lots gal. .37 - —
200-gal. lots gal. .36 - —

D

2-4-D, bbls., c.l., works, frt. equald. lb. .51 - —
l.c.l., same basis lb. .56 - .63
Isopropyl ester, dms., c.l., works. lb. .55 - —
l.c.l., works lb. .60 - .67
Dandelion root, bls lb. .35 - .40
DDD, tech., flake grd., fib. bgs., c.l., works lb. .45 - —
l.c.l., works lb. .46 - —
DDT powder, bgs., c.l., works, frt. equald lb. .27 - —
smaller lots, same basis lb. .29 - —
fib. dms., c.l., same basis lb. .28 - —
smaller lots, same basis lb. .30 - —
1-Decanol, tech., dms., c.l., dlvd. lb. .35 - —
l.c.l., dlvd lb. .37 - —
tanks, dlvd. lb. .32½- —
Deertongue leaves, bls lb. .45 - .48
Defluorinated phosphate, 13% P, paper bgs., works ton.49.50 - —
Rock, 17% P, paper bgs., works. ton.56.00 - —
14½% P, paper bgs., works. ton.45.00 - —
Degras, common, bbls. lb. .11 - .12
neutral, less 2% ffa., bbls lb. .26 - .27
over 2% ffa., bbls lb. .25 - .26
Derris root, 5% rotenone powd., bbls lb. .26 Nom.
d-Desoxyephedrine hydrochloride bots. lb.25.00 - —
dl, bots. lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l. 100 lbs. 8.95 - —
l.c.l. 100 lbs 9.10 - —
canary paper bgs., c.l. 100 lbs 8.69 - —
l.c.l. 100 lbs 8.84 - —
dark, paper bgs., c.l. 100 lbs 8.79 - —
l.c.l. 100 lbs 8.94 - —
white, paper bgs., c.l. 100 lbs. 8.53 - —
l.c.l. 100 lbs. 8.68 - —
Corn dextrin in cotton bgs 25c. per 100 lbs. higher.
Potato, bgs. lb. .10½- .11
Dextrose, USP, dms. lb. .17¾- —
Diacetone (see Alcohol, diacetone)
Diacetyl, flavor grade, bots lb. 4.50 - 5.50
Diamyl ether (see Ether, amyl).
o-Dianisidine dms. lb. 2.00 - —
Diatomaceous earth, reg, bgs., c.l., dlvd., California ton.50.00 - —
East coast ton.61.00 - —
l.c.l. ex whse ton.90.00 -100.00
purified, bgs., c.l., dlvd., California ton.65.00 - —
East coast ton.75.00 - —
l.c.l., ex whse ton.100.00 -110.00
Dibenzyl sebacate, CP, dms., c.l., E lb. .89¾- .90
l.c.l., same basis lb. .90¼- .91
tanks, same basis lb. .88 - —
Dibutyl phthalate, dms., c.l., dlvd. E lb. .34¾- —
l.c.l., same basis lb. .35¾- —
tanks, same basis lb. .33 - —
Sebacate, dms., c.l., works, dlvd lb. .73½- —
l.c.l., works, dlvd lb. .74 - —
tanks, works, dlvd lb. .71½- .72
Tartrate, dms., works, frt. alld lb. .64 - .71
Dibutylamine, dms., c.l., dlvd lb. .55 - —
l.c.l., same basis lb. .56 - —
tanks, same basis lb. .53 - —
Dicapryl phthalate, dms., c.l., dlvd. lb. .33½- .34
l.c.l., dlvd lb. .34½- .35
tanks, dlvd lb. .32 - —
Sebacate, dms., c.l., works lb. .68 - .68½
l.c.l., works lb. .68½- .69½
tanks, works lb. .66½- —
2,5-Dichloroaniline dms., works lb. .75 - .83
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichloropentanes, dms., c.l., works. lb. .05 - —
l.c.l., works lb. .05¾- —
tanks, works lb. .04½- —
Dicyclohexylamine dms, c.l., works. lb. .51 - —
l.c.l., works lb. .51¾- —
tanks works lb. .49¾- —
Dicyclohexyl phthalate, fib. dms., c.l., frt. alld lb. .60 - —
l.c.l., same basis lb. .61 - —
Dieldrin, dms., frt. alld lb. 1.95 - —
l.c.l., frt. alld lb. 2.40 - —
Diethanolamine dms., c.l., dlvd E. lb. .29¼- —
l.c.l. same basis lb. .30¼- —
tanks, same basis lb. .27½- —
Diethyl carbonate, dms., c.l., frt. alld lb. .46¾- —
l.c.l. same basis lb. .47¾- —
tanks, same basis lb. .45 - —
Maleate, dms., c.l., dlvd lb. .50 - —
l.c.l. dlvd lb. .48¼- —
tanks dlvd lb. .48½- —
Oxalate, dms., c.l., frt. alld lb. .41¾- —
l.c.l. same basis lb. .42¾- —
tanks same basis lb. .40 - —
Phthalate, dms., c.l., dlvd lb. .27 - —
l.c.l. dlvd. lb. .28 - —
tanks, dlvd. lb. .25 - —
Sulfate, dms., c.l., works lb. .18¾- —
l.c.l. works lb. .19¼- —
tanks works lb. .17 - —
Diethylamine, dms., c.l., dlvd. E lb. .50½- —
l.c.l., same basis lb. .51½- —
tanks same basis lb. .48½- —
N,N-Diethylaniline, dms., c.l., frt. alld lb. .51 - —
l.c.l., same basis lb. .52 - —
tanks, same basis lb. .50 - —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Phthalate (see Dioctyl phthalate).
Diethylene glycol, dms., c.l., dlvd. E. lb. .17¼- —
l.c.l., same basis lb. .18¼- —
tanks, same basis lb. .15½- —
Boriborate, dms., l.c.l. lb. .30½- —
Diethyl ether, dms., c.l., works. lb. .46½- —
l.c.l., works lb. .47 - —
Monobutyl, ether, dms., c.l., works lb. .28¾- —
l.c.l., works lb. .29¼- —
tanks, works lb. .27 - —
Acetate, dms., c.l., works lb. .30 - —
l.c.l. works lb. .30½- —
tanks, dlvd. E lb. .25¼- —
Monoethyl ether, dms., c.l., dlvd. lb. .20¾- —
l.c.l., dlvd lb. .21½- —
tanks, dlvd lb. .19½- —
Acetate, dms., c.l., works lb. .26¾- —
l.c.l., works lb. .27¼- —
tanks, dlvd. E lb. .25¼- —
Monomethyl ether, dms., c.l., works lb. .20 - —
l.c.l., works lb. .21 - —
tanks, works lb. .18½- —
Diethylenetriamine dms., c.l., dlvd E. lb. .43 - —
l.c.l., same basis lb. .44 - —
tanks, same basis lb. .41½- —
Diethyl ethanolamine, dms., c.l., dlvd lb. .67½- —
l.c.l. same basis lb. .68½- —
tanks, same basis lb. .65½- —
Diethylstilbestrol, USP, bots., 10-kilo lots kilo.110 00 - —
1-kilo lot kilo.120.00 - —
Digitalis leaves, USP, dom., dms., lb. .90 - 1.10
Digitoxin, USP, bots. gram. 5.50 - 6.50
Diglycol laurate, dms. lb. .31½- .33
Oleate, dms lb. .28½- .29¼
Stearate, dms lb. .25 - .26½
Dihexyl sebacate, dms., c.l., works lb. .69 - —
l.c.l., works lb. .69½- .70
tanks, works lb. .67 - —
Dihydrazine Sulfate, dms., works. lb. 1.10 - 1.25
Dihydrostreptomycin hydrochloride, bulk gram. .17 - —
Sulphate, bulk gram. .17 - —
2,2'-Dihydroxy-5,5'-dichloro-diphenylmethane pure dms. lb. 2.80 - 3.00
tech., dms lb. 1.04 - 1.14
Di-isobutyl ketone, dms., c.l., dlvd. lb. .15½- —
l.c.l., dlvd lb. .16½- —
tanks, same basis lb. .13½- —
Phthalate, dms., c.l., dlvd. E lb. .34 - —
l.c.l., same basis lb. .35 - —
tanks, same basis lb. .32 - —
Di-isobutylene, dms., c.l., works lb. .10 - —
l.c.l., works lb. .11 - —
tanks, works lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., dlvd. lb. .36 - —
l.c.l., same basis lb. .37 - —
tanks, same basis lb. .34 - —
Sebacate, dms., c.l., works, dlvd lb. .68½- —
l.c.l., works, dlvd lb. .69½- —
tanks, works, dlvd lb. .66½- .67
Di-isopropylamine, dms., c.l., dlvd. E. of Rockies lb. .50 - —
l.c.l., same basis lb. .51 - —
tanks, same basis lb. .48 - —
Dillseed, dewhiskered, bgs lb. .16 - —
natural, bgs lb. .14 - .14¼
Dimethyl anthranilate, cns lb. 5.25 - 5.75
Chloroacetal, dms., c.l., works lb. .53 - —
l.c.l. works lb. .55 - —
tanks works lb. .51 - —
Hydroquinone, dms lb. 1.70 - 2.75
Phthalate, dms., c.l., works lb. .29½- —
l.c.l., works lb. .30½- —
tanks, dlvd. lb. .27½- —
Sebacate, dms., c.l., works lb. 1.27 - —
l.c.l., works lb. 1.28 - —
tanks, works lb. 1.25 - —
Sulfate, 55-gal., ret, dms., c.l., works lb. .15 - —
l.c.l. works lb .16 - —
10-gal. ret. dms., l.c.l., works. lb. .16½- —
Dimethylamine, 25-40%, dms., c.l., frt. equald lb. .39 - —
l.c.l., frt. equald lb. .39½- —
tanks, frt. equald lb. .33 - —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .29½- —
l.c.l., frt. alld lb. .30½- —
tanks, frt. alld lb. .28½- —
Dimethyl ethanolamine, anhydrous, dms., c.l., dlvd. lb. 1.43 - —
l.c.l., dlvd. lb. 1.45 - —
tanks, dlvd. lb. 1.40 - —
70%, dms., c.l., dlvd., basis 100%. lb. .55 - —
tanks, dlvd. lb. .53 - —
N,N-Dimethylformamide dms., works. lb. .34 - —
tanks, works lb. .33 - —
2,4-Dinitroaniline, dms., frt. equald lb. .57 - —
m-Dinitrobenzene, crude, dms lb. .20 - —
purified, dms. lb. .22 - —
2,4-Dinitrochlorobenzene, dms., c.l., frt. alld. E lb. .15¼- —
l.c.l., frt. alld. E lb. .15¾- —
tanks, frt. alld., E lb. .15 - —
2,4-Dinitrophenol, bbls. lb. .37 - —



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in pellets or powder

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2,4-Dinitrotoluene, oily, dms. ....lb. .10 - —
refined, dms. ....lb. .21 - —
Dioctyl adipate, dms., c.l., works lb. .46¾- .47
l.c.l., works ....lb. .47¾- .48
tanks, works ....lb. .44¾- .45
Phthalate, dms., c.l., frt. alld..lb. .36 - —
l.c.l., frt. alld....lb. .37 - —
tanks, frt. alld....lb. .34 - —
Sebacate, dms., c.l., works, dlvd...lb. .68½- —
l.c.l., works, dlvd....lb. .69½- —
tanks, works, dlvd....lb. .66½- .67
Di-o-tolyguanidine, dms., ton lots, dlvd. lb. .57 - —
smaller lots, dlvd .. ....lb. .58 - —
1,4-Dioxane, dms., c.l., works....lb. .28¾- —
l.c.l. same basis ....lb .29¼ —
tanks, same basis ....lb. .27 - —
Dip oil (see Tar acid oil).
Dipentaerythritol, bgs., c.l., works, o. .34 - —
l.c.l. works lb. .37 - —
Dipentene, dest.-dist., dms., extra, c.l., works gal. .49 - —
l.c.l., works gal. .50 - —
ex-wnse gal. .68 - —
steam-dist., dms., c.l., works, South. gal. .68 - —
dlvd. N. Y gal. .87 - —
tanks, works, South gal. .55 - —
Diphenyl, bbls., c.l., works....lb. .15 - —
l.c.l., works lb. .16 - —
Diphenyl in bags ¼c. lower.
Oxide, perfume grade, cns....lb. .54 - .61
Phthalate, dms., c.l., works....lb. .51¾- —
l.c.l., works....lb. .53¾- —
Diphenylguanidine dms., ton lots lb. .48 - —
smaller lots lb. .49 - .50
Diphenylhydantoin sodium, USP., dms lb. 5.30 - 5.60
Dipropylene glycol, dms., c.l., frt. alld lb. .16¾ .17
l.c.l. same basis ... lb. .17¾ .18
tanks, same basis lb. .15 —
Monomethyl ether, dms., c.l., dlvd. E. lb. .20 - —
l.c.l., same basis....lb. .21 - —
tanks, same basis....lb. .18½- —
Di-sec-amyl phenol, dms., c.l., works lb. .30¼- —
l.c.l. works ....lb. .33¼- —
tanks, works lb. .28¼- —
Di-tert-amyl phenol, dms., c.l., works lb. .30¼- —
l.c.l., works ....lb. .33¼- —
tanks, works ....lb. .28¼- —
Di-tert-butyl-p-cresol, dms., c.l., works lb. .91 - —
l.c.l., works ....lb. .95 - —
Divi-divi, 45% tannin, bgs., bls., c.l., U.S. ports, exdock..ton.70.00 -72.00
Divinylbenzene, 20-25%, dms, c.l., works lb. .20 - —
l.c.l., works lb. .21 - —
tanks, works lb .19 - —
40-50%, dms., c.l., works, basis 100% lb. 1.00 - —
l.c.l., works, basis 100% lb. 1.15 - —
Dodecylbenzene, dms., c.l., frt. equald lb. .14½ —
l.c.l., same basis ....lb. .15½- —
tanks, same basis lb. .12½- —
Dyes, coaltar, certified colors for food drugs and cosmetics, 5-lb and 1-lb. lots dlvd.:—
Blue, FD & C, No. 1, cns....lb.17.00 -17.60
No 2 cns lb 17 00 17 60
Green, FD & C, No. 1, cns....lb 17.00 -17.50
No. 2. cns lb 22 20 22.85
No 3. cns. lb.35 25 -35 90
Orange, FD & C, No. 1, cns....lb. 3.65 - 3.75
No 2 cns lb 4.65 4 75
Red, FD&C. No. 1, cns lb 4.55 4 85
No. 2, cns lb 4.00 4.10
No. 3, cns lb 22.20 -22.85
No. 4, cns lb 7.20 7 50
No. 32 cns lb 5.30 5 40
Violet, FD & C, No. 1, cns....lb.17.00 -17.60
Yellow FD&C. No 1. cns lb 10.50 11 05
No. 3. cns lb. 3.30 3.40
No. 4. cns lb 3.30 3 40
No. 5 cns lb 4.00 4 10
No. 6. cns lb 4.00 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd.:—
Black, D&C, No. 1, cns ..... lb.10.95 - —
Brown, D&C, No. 1, cns .....lb.16.10 - —
Green, D&C, No. 5, cns .....lb.16.10 - —
No. 6, cns .....lb.16.10 - —
No. 7 cns .....lb.14.80 - —
Orange, D&C, No. 3, cns ....lb.10.95 - —
No. 4, cns .....lb.20.05 - —
No. 5, cns .....lb. 5.70 - —
No. 10 cns .....lb.20.70 - —
Red, D&C, No. 8, cns .....lb. 2.85 - —
No. 9, cns. .....lb. 2.85 - —
No. 10, cns. .....lb. 2.30 - —
No. 11, cns. .....lb. 1.85 - —
No. 12, cns. .....lb. 2.65 - —
No. 17 cns. .....lb.10.95 - —
No. 18 cns. .....lb.24.00 - —
No. 19 cns. .....lb.15.45 - —
No 21, cns. .....lb. 3.60 - —
No. 22, cns. .....lb.10.95 - —
No 25, cns. .....lb.24.65 - —
No. 33 cns. .....lb.17.45 - —
Violet, D&C. No. 2. cns .....lb.16.10 - —
Yellow D&C. No. 7. cns .....lb.10.95 - —
No. 10, cns .....lb 13.50 - —
No. 11, cns .....lb.13.50 - —

Dyes, coaltar certified colors for drugs and cosmetics, external use, 1-lb lots, works, 25-50 lb. lots dlvd:—
Blue, Ext., D&C, No. 1, cns....lb.16.10 - —
Green Ext. D&C. No 1. cns...lb 16.10 - —
Red Ext., D&C, No. 1, cns ...lb.13.50 - —
Yellow Ext. D&C No 1 cns lb.10.95 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd., No.
20 Chrysoidine Y .....lb. .74 - —
27 Fast light orange 2G....lb. .90 - —
31 Phloxine 2G .....lb. .74 - —
36 Yellow 2G .....lb. .83 - —
40 Orange II extra, conc....lb. 1.06 - —
57 Fuchsine 6B .....lb. 1.08 - —
79 Scarlet 2R .....lb. .81 - —
151 Orange AD .....lb. .55 - —
161 Orange RR .....lb. .66 - —
176 Fast red A .....lb. .99 - —
179 Rubine XX, conc.....lb. 1.14 - —
180 Blue F4B.....lb. .92 - —
185 Brilliant scarlet 3RN, conc.lb. .93 - —
202 Chrome blue black, cone lb. .75 - —
203 Chrome black T.....lb. .78 - —
208 Fast blue SR .....lb. .91 - —
216 Chrome red B.....lb. .84 - —
234 Brown Y .....lb. .98 - —
246 Blue black, extra, conc. lb. .95 - —
275 Milling red 3R, conc....lb. 2.03 - —
289 Navy blue 3R, conc....lb. 1.19 - —
299 Black F. conc .....lb. 1.54 - —
304 Neutral black 2B, conc., 200% lb. 2.01 - —
326 Fast scarlet 4BNC ....lb. 1.64 - —
332 Bismarck, brown, RX, conc. lb. .95 - —
365 Brilliant yellow, conc....lb. 2.57 - —
382 Scarlet B .....lb. 1.82 - —
401 Diazo black, BHD.....lb. .69 - —
406 Blue 2B, extra conc.....lb. 1.07 - —
419 Red FC conc.....lb. 1.12 - —
420 Brown M .....lb. .98 - —
448 Red 4BX, conc.....lb. 1.30 - —
518 Diamine sky blue FF, extra, conc lb. 1.50 - —
561 Brown B .....lb. 2.03 - —
581 Direct black EB.....lb. .94 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd., No.
593 Green BY, conc.....lb. .72 - —
596 Yellow Brown K extra..lb. .91 - —
620 Yellow 2G .....lb. 1.01 - —
639 Fast yellow 2G.....lb. 1.79 - —
640 Yellow XX .....lb. 1.61 - —
655 Yellow OX .....lb. 2.04 - —
657 Green V .....lb. 2.10 - —
662 Brilliant green G .....lb. 2.79 - —
667 Brilliant milling green 6B, conc. lb. 3.68 - —
671 Blue, EG .....lb. 1.70 - —
681 Crystal violet powder....lb. 2.15 - —
698 Violet 4BXN .....lb. 1.74 - —
720 Brilliant blue, BBG.....lb. 1.88 - —
729 Blue B, conc.....lb. 2.79 - —
749 Red BX .....lb. 4.33 - —
814 Yellow, NN, Conc .... lb. 3.11 - —
841 Safranine GF extra, conc., lb. 3.17 - —
865 Nigrosine, WSJ .....lb. .75 - —
922 Blue GXX .....lb. 1.71 - —
978 Black GXCF conc .....lb. .32 - —
1034 Alizarine red SC .....lb. 2.59 - —
1054 Alizarine blue SAPX....lb. 2.91 - —
1078 Alizarine green CG, extra, lb. 2.72 - —
1083 Alizarine blue, black, B lb. 2.33 - —
1096 Golden orange, GFD, single paste lb. 1.99 - —
1099 Dark blue BO, single paste, lb. 1.75 - —
1101 Jade green N, double paste, lb. 1.98 - —
1106 Blue RS double paste lb. 2.96 - —
1113 Blue BLFD double paste lb. 2.25 - —
1150 Olive R, single paste ....lb. 1.10 - —
1151 Brown R, single paste lb. 1.76 - —
1171 Indigo, synthetic, 20% paste lb. .31 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour index scale or prototype), contract, dlvd., No
1217 Orange RD single paste lb. 1.65 - —
p-4 Brown, PG .....lb. 2.30 - —
p-24 Gray L .....lb. 1.60 - —
p-14 Brown, EB .....lb. 1.51 - —
p-80 Diazo brilliant scarlet ROAD lb. 2.79 - —
p-202 Diazo black VJ, conc...lb. 1.74 - —
p-244 Brilliant scarlet BN...lb. 1.31 - —
p-313 Naphthol SWF .....lb. 2.42 - —

Dyes, coaltar, for stains, oil-soluble, 100-lb dms, sellers' works.
Black blue No 550 .....lb. .81 - —
Jet, No. 551 .....lb. .89 - —
Brown R, conc.....lb 1.72 - —
Orange R, brilliant.....lb. .90 - —
Red 4 B, conc. .....lb 1.37 - —
Yellow G .....lb 1.18 - —
FN, conc .....lb. 1.22 - —

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms. sellers' works:—
Auramine O .....lb 1.85 - —
Black, basic blue .....lb 1.21 - —
Jet .....lb 1.21 - —
Blue, methylene, 2 B, conc lb 1.71 - —
Brown, Bismarck R conc lb .86 - —
Chrysoidine, R, extra.....lb. .85 - —
Y, extra .....lb .64 - —
Fuchsine, conc .....lb 3.08 - —

Dyes, coaltar, for stains, spirit-soluble, 100 lb. dms., sellers' works:
Green malachite conc .... lb 2.10 - —
Rhodamine, B .....lb 4.33 - —
Safranine Y conc.....lb 2.90 - —
Violet, methyl B .....lb 1.10 - —

Dyes, coaltar, for stains, water-soluble, 100-lb dms., sellers' works:
Azo rubine R extra conc lb. 1.04 - —
Black, acid blue B, extra lb .86 - —
Fast light, 3 G, extra.....lb. 2.04 - —
Methanil conc .....lb. .91 - —
Orange Acid, Y, conc .....lb. .47 - —
Scarlet, croceine, MOO.....lb 1.45 - —
Yellow azo- conc .....lb. .90 - —

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls .....lb. 1.25 - —
Egg albumen (see Albumen).
Yolk, dried, dom., bbls.....lb. 1.41 - 1.43
tanners, bbls. .....lb .06 .06¼
Elder flowers, bright, bls.....lb. .35 - .40
Elm bark, grinding, bls.....lb. No prices.
powd., bbls., bxs.....lb. .60 - —
select, bundles .....lb. .65 - —
Emetine hydrochloride USP, bots., oz.32.95 -35 00
Ephedrine synthetic USP, anhydrous bots., 100-oz lots oz. .98 1.00
hydrous, bots., 100-oz lots oz. .93 - —
Hydrochloride, tin 100-oz. lots.. oz. .75 - —
Sulfate, cryst., tins, 100-oz. lots.oz. .72 - —
powd., tins 100-oz lots oz. .73 - —
Epichlorohydrin, dms., c.l., works.lb. .39 - —
l.c.l., works.....lb. .40 - —
tanks works .....lb. .37 - —
Epinephrine, synth USP, bots., 100 gram lots gram. .45 - .55

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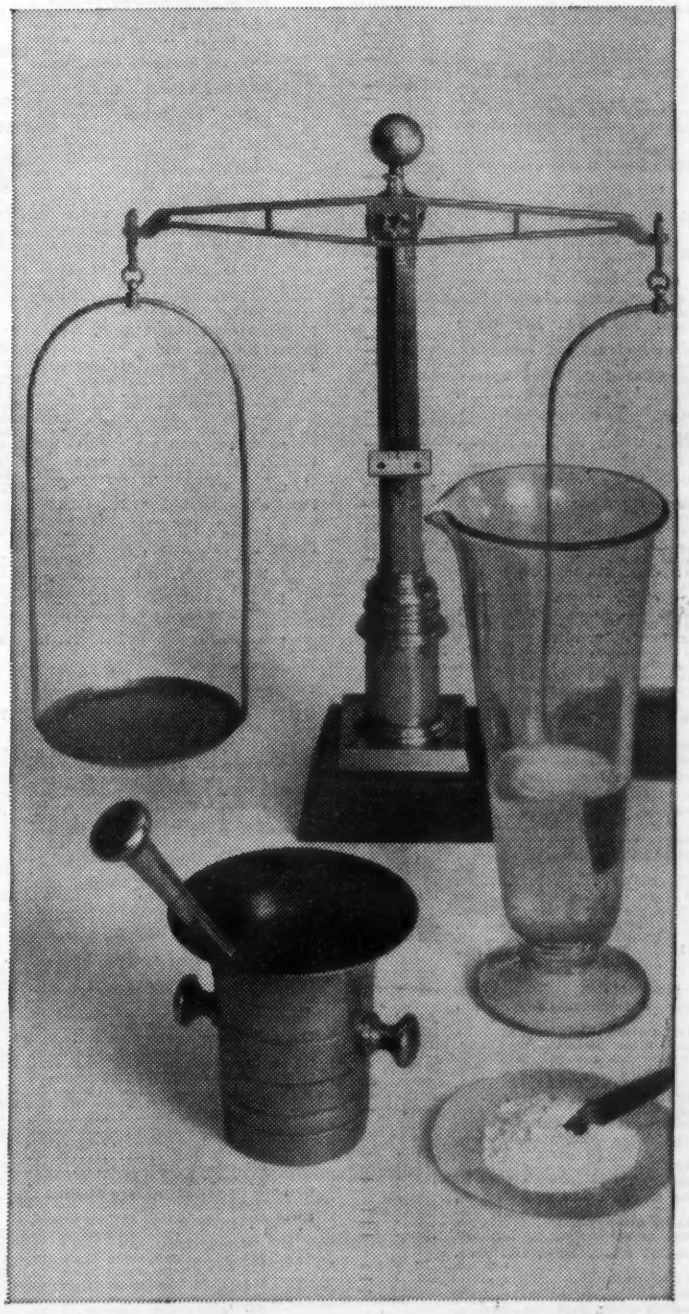

	SOLVENT	INTERMEDIATE	ACETYLATING AGENT	STABILIZER	MISCELLANEOUS
acetic acid	■		■		
acetic anhydride			■		dehydrating agent
acetaldehyde		■			
acetanilide		■			
acetone	■	■			
ethyl acetate	■				
isobutyl acetate	■				
isobutyl alcohol	■				
isobutyraldehyde		■			
isopropyl acetate	■				
hydroquinone dimethyl ether				■	ultraviolet inhibitor
oxidized cellulose					hemostatic agent and adsorbant.

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KINGSPORT, TENNESSEE
Subsidiary of EASTMAN KODAK COMPANY

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Epsom Salt—Iron Resinate

Epsom salt, tech., bgs., c.l., works, 100 lbs. 2.15 - —
l.c.l., works ... 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works, 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal ... 100 lbs. 3.10 - —
smaller lots ... 100 lbs. 3.35 - —
Ergosterol, unirradiated, cryst ... gram 50.00 —
Ergot, NF, dms., tin-lined ... lb. 3.25 - 3.50
Eserine, bots ... oz. 45.00 -50.00
Salicylate, bots ... oz. 29.75 -32.50
Sulfate, bots ... oz. 34.50 -35.61
Ether, acetate, see Ethyl acetate.
n-Butyl, dms., c.l., works ... lb. .31½- —
l.c.l., works ... lb. .32 - —
tanks, works ... lb. .30 - —
Butyric (see Ethyl butyrate).
2,2-Dichloroethyl, refd., dms., c.l., dlvd E ... lb. .14 - .14½
l.c.l., same basis ... lb. .15 - .16
tanks, same basis ... lb. 13 —
technical, dms., c.l., works ... lb. .13 —
l.c.l., works ... lb. 13½ —
tanks, works ... lb. .12 - —
Ethyl, absolute, ACS, dms ... lb. .37 - —
anesthesia USP, hospitals ... lb. cns ... lb. 89 —
½-lb. cns ... lb. .97 - —
¼-lb. cns ... lb. 1.05 - —
solvent, USP, dms., c.l., dlvd ... lb. .15¾- —
l.c.l., same basis ... lb. 16¾ —
tanks, same basis ... lb. 13¾ —
synthetic, dms., c.l., dlvd. E ... lb. .12 - —
l.c.l., same basis ... lb. .13 - —
tanks, same basis ... lb. .10 - —
Isopropyl, dms., c.l., dlvd ... lb. .07 - —
l.c.l., dlvd. ... lb. .08 - —
tanks, dlvd ... lb. .05 - —
Nitrous, conc., bots., 100-lb. lots, lb. 1.28 - 1.35
Vinyl, USP, anesthesia, bots, 50 cc. hospitals ... bot. 1.12 - —
75 cc. hospitals ... bot. 1.56 - —
Ethyl acetate, natural fermentation 85-88%, dms., c.l., frt. alld., lb. .13 - —
l.c.l., frt. alld. ... lb. .14 - —
tanks, frt. alld ... lb. .11 - —
85-86%, dms., c.l., frt. alld., lb. .13¼- —
l.c.l., frt. alld. ... lb. .14¼- —
tanks, frt. alld ... lb. .11¼- —
99%, dms., c.l., frt. alld. ... lb. .13½- —
l.c.l., frt. alld. ... lb. .14½- —
tanks, frt. alld ... lb. .11½- —
synthetic, 85-98%, dms., c.l., dlvd., lb. .13 - —
l.c.l., dlvd. ... lb. .14 - —
tanks, dlvd ... lb. .11 - —
85-98%, dms., c.l., dlvd ... lb. .13¼- —
l.c.l., dlvd. ... lb. .14¼- —
tanks, dlvd ... lb. .11¼- —
99%, dms., c.l., dlvd ... lb. .13½- —
l.c.l., dlvd. ... lb. .14½- —
tanks, dlvd ... lb. .11½- —
Acetoacetate, dms., c.l., dlvd ... lb. .55 - —
l.c.l., dlvd ... lb. .56½- —
Acrylate, dms., c.l., and truck load, works ... lb. .45½- —
less than truckload, works ... lb. .46 - —
tanks, works ... lb. .42¾- —
Aminobenzoate, USP (see Benzocaine).
Benzoate, cns., dms. ... lb. .74 - .90
Bromide, tech., 98%, dms., c.l., lb. .41 - —
l.c.l. ... lb. .43 - —
Butyrate, works ... lb. .80 - 1.02
Carbamate (see Urethane).
Chloride, tech., cyl., c.l., works, lb. .20 - .22
dms., c.l., same basis ... lb. .18 - .20
tanks, same basis ... lb. .10 - —
Chloride, USP, bbls., cyls ... lb. .22 - .74
Cinnamate, cns ... lb. 2.71 - 3.45
Formate, dms ... lb. .60 - —
Gallate, dms., 100 to 2,000-lb. lots, lb. 3.90 - 4.40
Iodide, chys., works ... lb. 3.30 - —
Methacrylate, dms., c.l., and less than truckload works ... lb. .50½- —
Nitrite (see Ether nitrous).
Oenanthate, dms. ... lb. 1.00 - 1.50
Oleate, dms., l.c.l., works ... lb. No prices.
Oxalate (see Diethyl oxalate).
Silicate dist. (see Tetraethylorthosilicate).
40% available SiO dms. works, lb. .54½- —
Ethylalphanaphthylamine (see monoethylalphanaphthylamine).
Ethylamine (see Mono, Di- or Tri-).
Ethylanilin (see Monoethylanilin).
Ethylbenzene, 99%, dms., c.l. ... lb. .19½- .20¼
l.c.l. ... lb. .20½- .21¼
tanks ... lb. .18½- —
Ethyl butyl ketone, dms., c.l., works, lb. .35½- —
l.c.l., works ... lb. .36 - —
tanks ... lb. .34 - —
Cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, works ... lb. .70 - —
smaller lots, works ... lb. .72 - .80
vis., 10, 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, works ... lb. .65 - —
smaller lots ... lb. .67 - .75
Ethylene dichloride, dms., c.l., dlvd ... lb. .10¼- —
l.c.l., same basis ... lb. .12¼- —
tanks, same basis ... lb. .09 - —
Ethylene dichloride prices W of Rockies 1c per lb higher
Oxide, dms., c.l., dlvd. ... lb. .20½- —
l.c.l., dlvd. ... lb. .23½- —
tanks, dlvd. ... lb. .16¼- —
Trichloride (see Trichloroethane).
Ethylenediamine 85-88%, dms., c.l., dlvd. E., basis 100% ... lb. .46 - —
l.c.l., dlvd. E., basis 100% ... lb. .47 - —
tanks, dlvd. E., basis 100% ... lb. .44 - —
Ethylene glycol, dms., c.l., dlvd. E., lb. .16¼- —
l.c.l., same basis ... lb. .17¼- —
tanks, same basis ... lb. .14½- —
Monobutyl ether, dms., c.l., dlvd. E ... lb. .20 - —
l.c.l., dlvd. E ... lb. .21 - —
tanks, dlvd. E ... lb. .18½- —
Monoethyl ether, dms., c.l., dlvd. E., lb. .20 - —
l.c.l., dlvd. E ... lb. .21 - —
tanks, dlvd. E ... lb. .18½- —
Acetate, dms., c.l., dlvd. E ... lb. .19½- —
l.c.l., dlvd. E ... lb. .20½- —
tanks, dlvd. E ... lb. .16½- —
Monomethyl ether, dms., c.l., dlvd., E ... lb. .20 - —
l.c.l., dlvd. E ... lb. .21 - —
tanks, dlvd. E ... lb. .18½- —
Acetate, dms., c.l., dlvd. E ... lb. .28¾- —
l.c.l., dlvd. E ... lb. .29¼- —
tanks, dlvd. E ... lb. .27 - —
Monostearate, triple pressed, dms., lb. .31 - .33
Ethyl ethanolamines, mixed, dms., c.l., frt. alld., E. Miss ... lb. .44 - —
l.c.l., same basis ... lb. .45 - —
tanks, same basis ... lb. .42 - —
Ethyl morphine hydrochloride, USP, bots ... oz. 15.85 - —
Ethylvanillin, cns., 25-lb. lots ... lb. 6.75 - 7.30
smaller lots ... lb 7.35 - 7.40
Eucalyptol, USP, cns., dms ... lb. 1.40 - 1.50
Eugenol, USP, bots ... lb. 2.40 - 3.15
Euphorbia herb, bls. ... lb. .13 - .15

F

Feldspar, enamel, 100 mesh, bgs., works ... ton 20.00 -22.00
Glass, 20 mesh bulk, tons, works ... ton 11.75 -12.50
Pottery, bgs, ton lots, works ... ton 20.00 -22.00
bulk, c.l., works ... ton 18.00 -20.00
Fennel seed, Argentine, bgs. ... lb. .12 - .12
Czech, mdium, bgs ... lb. .10½- .11
Levant, light, bgs ... lb. .14 - —
Indian, light, bgs ... lb. .11½- —
Fenugreek seed, Moroccan, bgs, lb. .07 - —
Ferric-ammonium citrate (see Iron ammonium citrate).
Ferric cacodylate (see Iron cacodylate).
Glycerophosphate (see Iron glycerophosphate).
Hypophosphite (see Iron hypophosphite)
Sulphate (see Iron sulphate ferric).
Ferrous gluconate, NF, dms ... lb. .68 - .87
Fir balsam, Canada, cns ... gal. 34.00 -35.00
Oregon, bbls. ... gal. No prices.
Fishliver oil (see Oil fishliver).
Fishmeal, menhaden, ground, domestic, 60% protein, bags, Balto area ... ton 137.00 -138.50
Fishscrap, menhaden, dried, 60% protein, bags, Balto area ... ton 132.00 -133.00
Fluorspar, dom., acid grade, bulk, c.l., mine ... ton 60.00 - —
ceramic grade, 93-98% CaF_2, grd., bulk, c.l., mine ... ton 57.50 - —
85-92% CaF_2, grad., bulk, c.l., mine ... ton 47.00 - —
metallurgical grade, briquets, pellets, 65% CaF_2, bulk, c.l., mine ... ton 34.00 - —
lump, 59-65% effective CaF_2, bulk, c.l., mine ... ton 40.00 - —
washed gravel, 59-60% effective CaF_2, bulk, c.l., mine ... ton 40.00 - —
60-65% effective CaF_2, bulk, c.l., mine ... ton 40.00 -41.00
65-70% effective CaF_2, bulk, c.l., mine ... ton 42.00 - —
70% or better, effective CaF_2, bulk, c.l., mine ... ton 43.00 - —
Formaldehyde, NF, (inhibited), dms., c.l., works, E ... lb. .066 - —
l.c.l., works E ... lb. .071 - —
tanks, works E ... lb. .0420- —
methanol-free (uninhibited), tanks, works ... lb. .0395- —
Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware. In states other than Eastern Seaboard as well as W. of Rockies, prices f.o.b. Texas plants, are .0270 for inhibited and .0245 for uninhibited.
Fleaseed (see Psyllium seed).
Fringetree bark, bls ... lb. .60 - .61
Fuller's earth, dom., powd., bgs., c.l., Fla., mines ... ton 21.25 - —
Georgia mines, c.l. ... ton 17.00 -18.00
Illinois mines, c.l. ... ton 19.00 - —
Texas mines, c.l. ... ton 16.00 - —
spent, f.o.b. shipt. pt., c.l. ... ton 4.50 - 5.00
imported, bgs., c.l. ... ton 42.00 - —
Furfural, tech., dms., c.l., works ... lb. .13 - —
l.c.l., works ... lb. .14 - —
tanks, works ... lb. .115 - —
Fusel oil, refined, dms., c.l., dlvd ... lb. .17½- —
l.c.l., dlvd. ... lb. .18½- —
tanks, dlvd ... lb. .15 - 15½
Fustic extract, cryst., No. 1, bbls., l.c.l. ... lb. .47½- —
No. 2, bbls., l.c.l. ... lb. .45½- —
No. 3, bbls., l.c.l. ... lb. .43½- —
liquid, No. 1, bols., l.c.l. ... lb. .22½- —
No. 2, bbls., l.c.l. ... lb. .21½- —
No. 3, bbls., l.c.l. ... lb. .19 - —
solid, No. 1, bxs., l.c.l. ... lb. .45 - —

G

G salt, 100% basis, bbls., frt. alld ... lb. .73 - —
Gammapicoline (see g-Picoline).
Gasoline, tanks, refy., ex tax, Arkansas, 84 octane ... gal. .115 - —
Group 3, 84 octane ... gal. .11 - .11375
Gulf coast, 83 octane ... gal. .105 - .11375
N. Y. Harbor, 6 octane ... gal. .1345- .143
Penn., western U. S. motor, 86 octane ... gal. .1375- .1415
natural, group 3, 26-70 octane ... gal. .05 - .05125
Gelatin, edible, pure (pork skin), 75 Bloom test, fib. dms., c.l. ... lb. .52 - —
150 Bloom test, fib. dms., c.l. ... lb. .63 - —
200 Bloom test, fib. dms., c.l. ... lb. .69 - —
225 Bloom test, fib. dms., c.l. ... lb. .72 - —
275 Bloom test, fib. dms., c.l. ... lb. .79 - —
Gelsemium root, bls ... lb. .28 - .29
Gentian root, bls ... lb. .17 - .20
grd., bbls., bxs ... lb. .22 - .23
powd., bbls., bxs ... lb. .23 - .24
Geraniol, extra, cns., dms ... lb. 1.90 - 2.20
standard, cns., dms ... lb. .60 - 1.75
Geranyl acetate, cns ... lb. 1.45 - 2.20
Ginger, oleoresin, NF, from African root, bots ... lb. 4.00 - 7.75
from Jamaican root, bls ... lb. 6.00 -10.25
Root, African, bls ... lb. .15 - —
Jamaica, No. 1, bgs ... lb. .19 - .20
No. 2, bgs ... lb. .17 - —
No. 3, bgs ... lb. .16½- —
Rhattoon, bgs ... lb. .16 - —
Nigerian, split, bgs ... lb. .14½- —
Glauber's salt, anhyd. see Sodium sulphate).
Glue, bone, extracted, 66 jellygrams, bgs., c.l., dlvd ... lb. .22½- —
86 jellygrams, same basis ... lb. .23 - —
104 jellygrams, same basis ... lb. .23½- —
131 jellygrams, same basis ... lb. .24 - —
164 jellygrams, same basis ... lb. .24½- —
191 jellygrams, same basis ... lb. .25 - —
222 jellygrams, same basis ... lb. .26 - —
packers' 40 jellygrams, bgs., c.l., dlvd ... lb. 18½- —
65 jellygrams, same basis ... lb. .19½- —
86 jellygrams, same basis ... lb. .20 - —
115 jellygrams, same basis ... lb. .20½- —
135 jellygrams, same basis ... lb. .21½- —
164 jellygrams, same basis ... lb. .22 - —
renderers' 110 jellygrams, bgs., c.l., dlvd ... lb. 20 - —
Bone glue, l.c.l., prices 1c. higher.
hide, 70-94 jellygrams, bgs., c.l., dlvd ... lb. .22 - —
95-121, bgs., c.l., dlvd ... lb. .22½- —
122-149 bgs., c.l., dlvd ... lb. .24 - —
150-177 bgs., c.l., dlvd ... lb. .26 - —
178-206, bgs., c.l., dlvd ... lb. .28 - —
207-236, bgs., c.l., dlvd ... lb. .32 - —
237-266, bgs., c.l., dlvd ... lb. .33½- —
237-266, bgs., c.l., dlvd ... lb. .33½- —
299-330, bgs., c.l., dlvd ... lb. .35 - —
331-362, bgs., c.l., dlvd ... lb. .36 - —
363-394, bgs., c.l., dlvd ... lb. .37 - —
395-427, bgs., c.l., dlvd ... lb. .38 - —
428-460, bgs., c.l., dlvd ... lb. .40 - —
461-494, bgs., c.l., dlvd ... lb. .42 - —
495-529, bgs., c.l., dlvd ... lb. .44 - —
Hide glue l.c.l. prices 1c. higher.

Glycerine, nat., crude, saponification, 88%, to refineries, tanks, dlvd. lb. .23 - —
soaplye, 80%, tanks, dlvd ... lb. .21 - —
refined, BP, 98%, dms., c.l., dlvd. lb. .34½- —
l.c.l., dlvd ... lb. .35 - —
tanks, dlvd ... lb. .34 - —
dynamite, dms., c.l., dlvd ... lb. .34½- —
l.c.l., dlvd ... lb. .35 - —
tanks, dlvd ... lb. .34 - —
high gravity, dms., c.l., dlvd. lb. .34½- —
l.c.l., dlvd ... lb. .35 - —
tanks, dlvd ... lb. .34 - —
USP, CP, 95%, dms., c.l., dlvd. lb. .33½- —
l.c.l., dlvd ... lb. .34 - —
tanks, dlvd ... lb. .33 - —
yellow, distilled, dms., c.l., dlvd. lb. .34 - —
l.c.l., dlvd. ... lb. .34½- —
synth., dms., c.l., dlvd ... lb. .34½- —
l.c.l., dlvd ... lb. .35 - —
tanks, dlvd ... lb. .34 - —
Glycine (see Acid aminoacetic).
Glycerol (see Glycerine).
Glyoxal 30% dms. c.l. works ... lb. .18½- —
l.c.l. works ... lb. .19 - —
tanks works ... lb. .18 - —
Gold chloride, acid-brown, bots ... oz. 22.50 -23.00
acid-yellow, bots ... oz. 20.60 -20.50
Golden seal root, NF, tested, bls. ... lb. 2.23 - 2.50
powd., bxs ... lb. 2.75 - 3.25
Graphite, amorph., powd., bgs., fib. dms. ex whse ... lb. .06 - .09½
crystalline, 88-90%, powd., bgs., fib dms., ex whse ... lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse ... lb. 21 - .24½
95-97%, powd., bgs., fib. dms., ex whse ... lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex whse ... lb. .29 - .31
No. 2, 90-95%, bgs., fib. dms., ex whse ... lb. .29 - .31
Grease, brown, tanks, dlvd ... lb. .06½- —
house, tanks, dlvd ... lb. .07 - —
white, choice, not all hog, tanks, dlvd ... lb. .08½ Nom.
yellow, tanks, dlvd ... lb. .07¼- —
Green, brilliant, thioflavin, toner, molybdated PMA, bgs., works ... lb. 5.10 - —
tungstated, PTMA, bgs., works ... lb. 6.20 - —
Chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis ... lb. .38 - —
16-30%, bbls., same basis, lb. .39 - —
31-45%, bbls., same basis, lb. .40 - —
45-49%, bbls., same basis, lb. .43 - —
50%, bbls., same basis ... lb. .48 - —
reduced color, 25%, bbls., same basis ... lb. .19 - —
Chrome green prices are ½c. higher, dlvd., at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Chromium oxide, hydrated, bbls., dms., c.l., frt. alld ... lb. 1.00 - 1.10
pure, bgs., c.l., frt. alld ... lb. .39¼- —
l.c.l., same basis ... lb. .39¾- —
Dyes (see Dyes, coaltar).
Malachite, straight, PTMA, bbls., works ... lb. 4.80 - —
Paris (see Paris green).
Phthalocyanine toner, bbls., works, lb. 3.95 - —
resinated, bbls ... lb. 3.50 - —
water dispersable, bbls ... lb. 1.71 - —
Pigment B, kegs ... lb. 1.35 - —
Grindelia robusta herb, bls ... lb. .44 - —
Guaiacol, cryst., NF, dms., tins ... lb. 2.10 - 2.15
liquid, NF, dms., chys ... lb. 2.30 - 2.40
Carbonate, NF VII, dms ... lb. 3.40 - 3.45
Gum, acreoides (see Gum, yacca).
Aloe (see A.)
Arabic, amber, sorts, bgs ... lb. .15½- 16
powdered, USP, bbls ... lb. .20 - .23
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs ... lb. .38 - .42
Camphor (see C)
Cellulose, bgs., 23,000-lb. lots or more, works, frt. alld ... lb. .60 - —
smaller lots, same basis ... lb. .62 - —
Copal, Congo, No. 1, bgs ... lb. .19 - .20
No. 2, bgs ... lb. .17 - .19
No. 3, bgs ... lb. .15 - .16½
Manila, C, bgs ... lb. .35 - .38
CBB, bgs. ... lb. .26 - .28
DBB, bgs. ... lb. .24 - .26
DK, bgs ... lb. .15 - .18
dust, bgs ... lb. .11 - .12½
soft, MA, bgs ... lb. .15 - .18
WS, bgs ... lb. .32 - .36
Philippine, pale, chips, bgs ... lb. .21 - .24
nubs, bgs ... lb. .30 - .32
seeds, bgs ... lb. .15 - .17
sorts, bgs ... lb. .16 - .17
Pontianak, chips, bgs ... lb. .20 - .22
nubs, bgs ... lb. .31 - .34
Dammar, Batavia, A, E, cs ... lb. .28 - .29
dust, bgs ... lb. .16 - .18
E, bgs ... lb. .20 - .22
East India, batu, bold, bgs ... lb. .14 - .15½
nubs and chips, bgs ... lb. .08½- .09½
black, bold, bgs ... lb. 14½- .16
unscraped, bgs ... lb. .11 - .13
nubs and chips, bgs ... lb. .11 - .13
pale, chips, bgs ... lb. .13 - .14
nubs, bgs ... lb. .18 - .20
Siam, bgs ... lb. .34 - .37
Singapore, No. 1, bgs ... lb. .38 - .40
No. 2, bgs ... lb. .28 - .30
No. 3, bgs ... lb. .16 - .17
dust, bgs ... lb. .16½- .17
seeds, bgs ... lb. .20 - .22
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N.E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va ... lb. .16 - .16½
wood-rosin type, dms., c.l., same basis ... lb. .15½- —
Karaya, NF, powd., No. 1, bbls ... lb. .30 - .35
No. 2, bbls ... lb. .24 - .28
No. 3, bbls ... lb. .20- —
Kauri, bgs ... lb. .30 - .50
Locust bean, powd., bgs ... lb. .30 - .32
Myrrh, cs. ... lb. .38 - .40
Opium (see O).
Olibanum siftings, cs ... lb. .15 - .20
tears, cs. ... lb. .22 - .30
Red (see Gum, yacca).
Rosin (see R).
Sterculia (see Gum karaya).
Tragacanth, No. 1, cs. ... lb. 2.85 - 2.90
No. 2, cs ... lb. 2.45 - 2.50
No. 3, cs ... lb. 1.60 - 1.70
powdered, USP, bbls ... lb. 1.25 - 1.35
Yacca, bgs ... lb. .06 - .09
Gypsum, plaster of paris, 100-lb. paper bags, trucks, dlvd. N. Y. C ... ton 20.30 - —
Gypsum, terra alba, domestic, same basis ... ton 19.00 - —
works, N. Y. C. ... ton 16.00 - —
imported, English, 100-lb. paper bags, ex dock, N. Y. C. ... ton 55.00 - —
ex warehouse ... ton 60.00 -62.00

H

Hawthorn berries, bgs. ... lb. .28 - .32
Heliotropine, cryst., cns ... lb. 3.25 - 3.75
Hellebore root, dom. green, bls ... lb. .55 - .65
Helonias root, bls ... lb. 1.75 - 2.00
Hematine extract, cryst., No. 1, bbls., l.c.l. ... lb. .47 - —
No. 2, bbls., l.c.l. ... lb. .43 - —
No. 3, bbls., l.c.l. ... lb. 41 - —
No. 4, bbls., l.c.l. ... lb. .39 - —
No. 5, bbls., l.c.l. ... lb. .37 - —
paste, No. 1 bbls. l.c.l. ... lb. 20½ - —
Henbane leaves, bls ... lb. .40 - .45
Heptane, industrial, tanks, Bayonne, N. J ... gal. .19 - —
Baytown, Tex ... gal. .14¾- —
Borger, Tex ... gal. .14¾- —
Hesperidin methylchalcone, bots., works ... lb. 50.00 - —
Hexachlorophene, dms ... lb. 2.00 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 1,000-lb. lots or more, Perth Amboy or N Y C, lb. .232 - —
smaller lots, same basis ... lb. .242 - —
fib dms. 1,000-lb. lots or more, same basis ... lb. .239 - —
smaller lots, same basis ... lb. .249 - —
USP, dms., 500 lb. lots or more, same basis ... lb. .40½- —
smaller lots, same basis ... lb. .41½- —
Hexamine (see Hexamethylenetetramine).
Hexane industrial, tanks, Bayonne, N. J ... gal. .19 - —
Baytown, Tex ... gal. .15½- —
Borger, Tex ... gal. .13½- —
Hexanol, normal, dms., c.l., works, lb. .34½- —
l.c.l., works ... lb. .35 - —
tanks, works ... lb. .33 - —
Hexyl cinnamic aldehyde, dms ... lb. 2.25 - 7.50
Salicylate, dms ... lb 1.75 - —
Hexyleneglycol, dms., c.l., dlvd ... lb. .16 - —
l.c.l., dlvd ... lb. .17 - —
tanks, dlvd ... lb. .14 - —
Hexylmethacrylate, normal, dms., less than truckload, works, lb. 71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd ... lb. 14.00 - —
smaller lots, dlvd. ... lb. 14.50 - —
Histamine diphosphate, USP., bots, kilo 454.00 - —
Histidine hydrochloride, laevo, NF, fib. dms., 50-kilo lots, works, kilo. 80.00 -85.00
1-5 kilo lots, works ... kilo. 90.00 -95.00
Homatropine hydrobromide, USP, bots ... oz. 9.35 -10.60
Methylbromide, USP, bots ... oz. 9.75 -10.60
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago ... unit-ton 6.75 - —
Horehound herb, bls. ... lb. .16 - .19
Hydrastine, bots ... oz. 29.50 -31.00
Hydrochloride, NF, bots ... oz. 29.50 -31.00
Sulphate, bots ... oz. 35.00 -37.00
Hydrastinine 10-grain bots ... bot. 1.95 —
Hydrastis (see Goldenseal).
Hydrazine, free base, ret. dms., Niagara Falls ... lb. 3.00 - 3.30
Hydrate 100% ret. dms., Niagara Falls ... lb. 1.75 - 1.95
85%, ret. dms., same basis ... lb. 1.35 - 1.55
Hydroturamide, dms., fib. cans., works ... lb. .30 - .40
Hydrogen chloride, anhyd., 50-lb. cyl., c.l., works ... lb. .45 - —
l.c.l., works ... lb. .55 - .60
Fluoride, anhyd., cyls., works ... lb. .27½- .29
tanks, works ... lb. .21 - —
Peroxide, USP, bbls, dlvd ... lb. .03¾- .05
35%, cbys., dlvd ... lb. .228 - —
dms., c.l., dlvd ... lb. .205 - —
l.c.l., dlvd. ... lb. .213 - —
tanks, dlvd. ... lb. .201 - —
Hydroquinone photo grade bbls. dms., lb. .98 - 1.00
tech., dms., c.l., frt. equald ... lb. .77 - —
l.c.l., frt equald ... lb. .78 - —
Hydroxycitronellal, cns ... lb 5.35 - 5.80
Hyoscine salts (see Scopolamine)
Hyoscyamine, bots ... oz. 15.75 -16.00
Hydrobromide, bots ... oz. 11.00 -12.00
Sulphate, bots ... oz. 10.50 -11.50
Hypernic extract, cryst., No. 2, bbls., l.c.l. ... lb. .52 - —
liquid, No. 1, bbls., l.c.l. ... lb. 35 - —
No. 2, bbls., l.c.l. ... lb. .27 - —

I

Ichthammol, NF, dms ... lb. .60 - .75
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).
Indol, CP, bots ... lb 17.00 -21.00
Inositol, bots., dlvd ... lb 5.00 - —
dms., dlvd. ... lb. 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs ... lb. 1.30 - —
resublimed, USP, bots., jars ... lb. 2.55 - —
Iodochlorohydroxyquin, USP, dms. ... lb 5.90 - —
Iodoform, NF, dms., kgs ... lb 4.90 - 5.00
Ionone, alpha, cns ... lb 4.00 - 8.25
Beta, cns ... lb 4.30 -11.25
Methyl, std., dms., cns ... lb. 3.80 - 4.65
Ipecac root, bgs ... lb. 6.25 - 6.50
powd., bbls., bxs ... lb. 6.75 - 7.00
Irish moss, bleached, prime, bls ... lb. .30 - .35
Iron acetate liquor, 25°, bbls., c.l., works ... lb. .09 - —
l.c.l., works ... lb. .09¾- —
solut., USP IX, chys ... lb. .16 - —
dms. ... lb 17 - —
Cacodylate, NF, bots ... lb. 13.00 -14.00
Chloride (ferric), anhyd., tech., dms., c.l., works, 100 lbs. 6.75 - —
l.c.l., works ... 100 lbs. 8.00 - —
indust., cryst., bbls., c.l., works, 100 lbs. 4.75 - 5.25
l.c.l., works ... 100 lbs. 5.25 - 5.75
42° Be, cbys., c.l., works, lb. 7.25 - 8.25
tanks, frt. equald., basis 100% ... 100 lbs. 3.20 - —
USP, cryst., dms., works ... lb. .07½- .09
Citrate, gran., dms ... lb. .86 - —
Gluconate, NF (see Ferrous gluconate, NF).
Glycerophosphate, NF, powd. ... lb. 4.75 - 4.85
Hypophosphite, NF, dms ... lb. 2.80 - —
Iodide, bgs. ... lb. 3.66 - 3.73
Naphthenate liq., 6% Fe., dms., frt. alld ... lb. .25¾- —
Oxalate gran, dms ... lb. .85 - .87
Phosphate, NF, soluble, gran., pearls, cs ... lb. .64 - .68
Pyrophosphate, NF VII, soluble, gran, pearls, dms ... lb. 78 - .81
Resinate, 6.75% Fe, dms., frt. alld. ... lb. .26¼- —

Iron stearate, dms., c.l., frt. alld. lb. .37 - —
l.c.l., same basis lb. .38 - .42
Sulphate ferric, partially hydrated, bgs., c.l., works ton 31.75 - 33.75
l.c.l., works ton 34.75 - 40.75
ferrous, tech. (see Copperas).
USP cryst bbls. dms lb. .09½ - .10
Iron-ammonium citrate, brown, N.F., gran., dms lb. .59 - —
green, USP XII, gran., dms lb. .59 - —
Oxalate, fine gran., dms lb. .25½ - .28½
Iron-potassium, oxalate, fine gran., dms lb. .30½ - .33½
Iron-sodium oxalate, fine gran., dms lb. .25½ - 28½
Isoborneol, cns lb. 1.25 - 1.70
Isobornyl acetate, cns lb. .55 - .95
formate dms. lb. .80 - —
Propionate, dms lb. 1.15 - 1.45
Isobutyl acetate, perfume grade, cns lb. .75 - 1.00
solvent grade dms., c.l. dlvd E. of Rockies lb. .13¼ - —
l.c.l., same basis lb. .14¼ - —
tanks, same basis lb. .11¼ - —
Isobutyraldehyde, dms., dlvd lb. .50 - —
Isoeugenol, cns lb. 3.40 - 4.05
Isoniazid, bulk, powder, 25-kilo lots or more kilo. 23.00 - 31.90
smaller lots kilo. 24.00 - 32.00
Isopentane, commercial grade, non ret. dms., f.o.b. Tex. refy gal. .50 - —
pure lb. .50 - —
tech. lb. .25 - —
Isonicotinic acid hydrazide (see Isoniazid).
Isophorone, dms., c.l., works lb. .24¼ - —
l.c.l. works lb. .24¼ - —
tanks, works lb. .22½ - —
Isopropanol (see Alcohol, Isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .12 - —
l.c.l., same basis lb. .13 - —
tanks, same basis lb. .10 - —
Alcohol (see Alcohol, Isopropyl).
Benzene (see Cumene).
Ether (see Ether, Isopropyl).
Isopropylamine (see Mono, Di, or Tri-)
Isopropylphenol, dms., c.l., works lb. .45 - —
l.c.l. works lb. .47 - —
tanks, works lb. .45 - —
Isoquinolin, dms., works lb. .65 - 1.25

J

Jalap root, NF, bls lb. .38 - .55
powd., bbls., bxs lb. .49 - .65
Juniper berries, bgs lb. .16 - .18
Tar, NF, dms lb. .42 - .60

K

Kaolin (see also Clay, China).
NF, powd., bg. dms lb. .03 - .16½
colloidal bb. dms lb. .15 - .15½
Kerosene, tanks, refy., Ark., 42-44 specific gravity, w.w. gal. .09375 - —
California, 40-43 s.g., w.w. gal. .138 - .143
Gulf ports, 41-43 s.g., w.w. gal. .0925- .0975
N. Y. Harbor, 43-44 s.g., w.w. gal. .11 - —
Okla.-Tex., 41-43 s.g., w.w., gal. .09 - .10
Penn., Western, 43 s.g., w.w. gal. .1145- .1205
Kola nuts, bgs. lb. .12 - —

L

Lady's slipper root, bls lb. 1.70 - 1.75
Lanolin, cosmetic, dms., works lb. .36 - .38
USP, anhydrous, dms., works lb. .33 - —
hydrous, dms., works lb. .32 - —
Lard, cash, tres., Chicago lb. .1700- —
Larkspur seed, bgs. lb. .20 - .25
Lauryl chloride, distilled, dms., c.l., works, frt. equald lb. .74 - —
l.c.l. lb. .75 - —
Methacrylate, normal, dms., c.l. or truckload lb. .65½ - —
Lavender flowers, medium bls lb. .55 - .60
ordinary, bls lb. .16 - .20
select, bls lb. .90 - —
Lead acetate, white, crystals, bbls. gran bbls. lb. .22 - —
gran. obls lb. .23 - —
powd., bbls lb. .23 - —
NF cryst., gran. powd lb. .31 - .39
Arsenate, acid powder, dealers, 3-lb. bgs., or larger, c.l., frt. alld. on 96 lbs. or more lb. .27½ - —
l.c.l., frt alld lb. .28½ - —
1-lb. bgs., c.l. lb. .41½ - —
l.c.l. lb. .42½ - —
Blue, basic sulphate, bbls., c.l., ship't point, frt. alld. lb. .14¾ - —
l.c.l., same basis lb. .15¾ - —
Carbonate (see Lead, white).
Chloride dms lb. .45 - —
Iodide, NF V jars lb. 3.82 - —
Linoleate, fused, 26.5%, dms lb. .32½ - —
Metal, pigs, prime, N. Y. lb. .13 - —
St Louis lb. .1230- —
Metallic paste, dms., 20,000-40,000-lb. lots, same basis lb. .32¼ - —
10,000-20,000-lb. lots same basis lb. .33¼ - —
2,000-10,000-lb. lots, same basis lb. .33¾ - —
200-2,000-lb. lots, same basis. lb. .34¼ - —
Prices ex whse. Jersey City, N. J., 4½c. per lb. higher.
Monosilicate, bgs., c.l., works, frt. equald lb. .1410- —
l.c.l., same basis lb. .1460- —
Naphthenate, liquid, 16% Pb, dms., dlvd lb. .17½ - —
24% Pb. dms., dlvd lb. .23¾ - —
solid, 37% Pb. dms., dlvd lb. .31¼ - —
Nitrate, bbls lb. .22¼ - —
Oleate, fused, bbls lb. .29¾ - —
Orthosilicate gel, 50% PbO, dms., works lb. .32¾ - —
60% PbO dms. works lb. .31¼ - —
Peroxide, powd., tech., bbls lb. .45 - .47
Phthalate, dibasic, dms., works. lb. .41 - —
Red, 95% Pb_3O_4, or less, bbls., c.l., works, frt. equald lb. .16 - —
l.c.l., same basis lb. .15¾ - —
97% Pb_3O_4, bbls., c.l., same basis lb. .16¾ - —
l.c.l., same basis lb. .16¼ - —
98% Pb_3O_4, bbls., c.l., same basis lb. .16 - —
l.c.l., same basis lb. .16½ - —
Resinate, precip., dms., dlvd lb. .23½ - —
Salicylate, normal dms., works lb. .46 - —
Stearate, dibasic, ton lots lb. .54 - —
precip., bbls., c.l. lb. .39 - —
l.c.l. lb. .40 - .44
Sulphate (see Lead, blue, basic sulphate). Lead, white; basic sulphate).
Tallate, liquid, 16% Pb, dms. lb. .16 - —
24% Pb. dms. lb. .21½ - —
White, basic carbonate, bgs., c.l., ship't point, frt. alld. lb. .16 - —
l.c.l., same basis lb. .17 - —
basic silicate, bgs., c.l., ship't point, frt. alld lb. .15¼ - .17¾
l.c.l., same basis lb. .16¼ - .18¾
basic sulphate, bgs., c.l. ship't point, frt. alld lb. .14¾ - —
l.c.l., same basis lb. .15¾ - —

Lecithin, edible, tech., bleached, non-ret., dms., c.l., works. lb. .15 - .17
l.c.l., same basis lb. .15½ - .17½
unbleached, non-ret., dms., c.l., same basis lb. .13 - .15
l.c.l., same basis lb. .14½ - .16½
Leucine dextro-laevo, dms., works. lb 12.25 - 15.00
Licorice extract, mass, cns lb. .28 - .40
powd., bbls. lb. .34 - .48
Root, whole, bbls lb. .08 - .12
gran., bbls. lb. .12 - .17
powd., bbls. lb. .10 - .15
Lignosulfonate, 70% tannin, bgs., c.l., works lb. .06½ - —
l.c.l., works lb. .06¾ - .07
Lime, agricultural, bulk, works ton. 14.50 - —
Chemical (quicklime) lump pebble bulk Adams, Mass ton 12.50 - —
Annville Pa ton 11.50 - —
Austin Texas ton 9.50 - —
Bellefonte Pa. ton 11.50 - —
Buffalo N Y ton 14.00 - —
Cedar Hollow Pa ton 11.50 - —
Duluth, Minn. ton 12.50 - —
El Paso Texas ton 14.00 - —
Farnams, Mass ton 14.00 - —
Gibsonburg, Ohio ton 12.50 - —
Hannibal Mo ton 10.00 - —
Keystone Ala ton 10.25 - —
Kimballton, Va. ton 10.25 - —
Knoxville Tenn ton 10.50 - —
Lee, Mass ton 12.50 - —
Lewisburg, Ohio ton 10.00 - —
Limedale Ark ton 10.00 - —
Los Angeles, Cal ton 25.10 - 26.84
Marble Cliff Ohio ton 10.00 - —
Martinsburg, W. Va. ton 11.00 - —
Mosher, Mo. ton 10.75 - —
Nelson, Ariz. ton 14.50 - 23.65
Quincy, Ill. ton 10.00 - 13.00
Reddick Fla ton 13.50 - —

Lime, chemical (quicklime), lump, pebble, bulk, Scotrock, Ala. ton 10.25 - —
Springfield, Mo ton 12.25 - —
Winooski, Vt ton 15.50 - —
Woodville, Ohio ton 11.50 - —
York, Pa ton 13.50 - —
Hydrated, paper bags, Adams, Mass ton 15.50 - —
Annville, Pa ton 14.50 - —
Austin, Texas ton 13.00 - —
Bellefonte, Pa ton 14.50 - —
Buffalo, N Y ton 16.00 - —
Cedar Hollow Pa ton 14.50 - —
Chicago ill ton 15.00 - —
Duluth, Minn ton 14.00 - —
El Paso Texas ton 17.50 - —
Engle W Va ton 14.50 - —
Farnams, Mass. ton 14.00 - —
Gibsonburg, Ohio ton 16.50 - —
Hannibal, Mo. ton 12.00 - —
Keystone, Ala ton 13.50 - —
Kimballton Va ton 13.50 - —
Knoxville Tenn ton 13.00 - —
Lee, Mass ton 15.50 - —
Lewisburg Ohio ton 14.60 - —
Limedale, Ark. ton 12.00 - —
Marble Cliff Ohio ton 13.50 - —
McNeil Tex ton 13.00 - —
Meneminee, Mich. ton 14.00 - —
Mosher, Mo. ton 13.00 - —
North Lazewell, Va ton 12.75 - —
Quincy, Ill. ton 10.00 - 12.00
Reddick, Fla ton 16.00 - —
Scotrock, Ala ton 13.50 - —
Springfield Mo ton 12.25 - —
Winooski Vt ton 15.50 - —
Woodville Ohio ton 14.50 - —
York, Pa ton 14.50 - —

Lime, spray, paper bgs., Adams, Mass. ton 17.00 - —
Annville, Pa ton 17.00 - —
Austin, Texas ton 13.00 - —
Bellefonte, Pa ton 17.50 - —
Carey, Ohio ton 11.00 - —
Duluth Minn ton 15.00 - —
Engle, W. Va. ton 14.50 - —
Farnams, Mass ton 14.00 - —
Gibsonburg Ohio ton 16.50 - —
Keystone Ala ton 13.50 - —
Kimballton Va ton 13.50 - —
Lee, Mass ton 17.00 - —
Lewisburg Ohio ton 16.60 - —
Marble Cliff Ohio ton 16.00 - —
McNeil, Tex ton 16.00 - —
Meneminee Mich ton 14.00 - —
Mosher, mo. ton 13.00 - —
North Lazewell Va ton 12.75 - —
Reddick, Fla. ton 16.00 - —
Rockland, Me ton 10.00 - —
Springfield Mo ton 12.25 - —
Scotrock, Ala. ton 13.50 - —
Winooski Vt ton 17.00 - —
Woodville Ohio ton 16.50 - —
York, Pa ton 15.50 - —
Lime salts (see Calcium)
Lime ammonia nitrogen, 20.5% N (see Ammonium nitrate with dolomite)
Limestone grd bgs. works ton 3.50 - 4.00
Linalool, ex bois de rose oil, dms. lb. 5.95 - 6.70
ex lignaloe wood oil, dms lb. 5.30 - 7.10
Linalyl acetate ex bois de rose, 90-92%, dms lb. 5.35 - 6.23
96-98%, dms. lb. 6.75 - 7.15
ex petitgrain, bots. lb. 3.90 - 4.25

Plaskon 3120 has been recognized since 1947 as one of the highest quality alkyd resins. It is a preferred ingredient in white baking enamels for refrigerators, ranges, and other home appliances. Glycerine-based Plaskon imparts qualities of durability, gloss and adhesion to these enamels.

since 1947 Glycerine contributes Lasting Toughness

Good color retention, adhesion, and film toughness are of primary importance in baked coatings, interior and exterior enamels, automotive undercoats, general industrial air-drying primers, and coatings for metal furniture and equipment. Glycerine alkyds are favored as vehicles for coatings of this type.

Not only does Glycerine impart the desired properties to the resin. It also simplifies the resin-making process because it is so easy to handle. Its cooking qualities are excellent. It is easily controlled to give a product of low acid number without undue hazard of gelation.

Want detailed information on the chemical and physical properties of Glycerine? "Why Glycerine for Alkyd Resins and Ester Gums?" is yours for the asking. Write Glycerine Producers' Association, 295 Madison Avenue, New York 17, N. Y.

Nothing takes the place of Glycerine

Lindane—Methyl Lactate

Lindane, 25% formulation, dealers, cns., works lb. 2.20 - —
dms., works lb. 2.10 - —
99%, tech., dealers, dms., works lb. 2.75 - 3.35
Linden flowers with leaves, bis lb. .34 - .35
without leaves, bis lb. .40 - .41
Linseed meal, expeller, 32-34% bulk, Midwest, mills ton 74.00 Nom.
extracted, 36%, same basis ton 69.00 -69.50
Litharge, com'l, powd., bbls., c.l., works, frt. equald lb. .15 - —
l.c.l., same basis lb. .15½- —
Lithium benzoate dms lb. 1.65 - 1.67
Bromide, NF bbls., works, frt. equald lb. 2.10 - 2.75
Carbonate, tech., dms lb. .90 - 1.10
Chloride, cryst., dms lb. 1.22 - 1.26
Citrate, NF, bbls., dms., kgs lb. 1.60 - 1.64
Fluoride, bbls., 10,000-lb. lots lb. 2.15 - —
ton lots lb. 2.20 - —
less ton lots lb. 2.25 - —
Hydride powd., dms., works lb. 12.00 -14.00
Hydroxide, monohydrate, ton lots, dms. lb. 1.10 - —
Salicylate, dms lb. 1.60 - 1.70
Lithopone, ordinary, bgs., c.l., dlvd lb. .07¼- —
l.c.l., dlvd. lb. .08¼- .08½
titanated (high-strength), bgs., c.l., dlvd lb. .10 - —
l.c.l., dlvd lb. .11 - —

Lithopone prices, Pacific Coast, 1c. per lb. higher.

Lobelia herb, bls lb. .45 - —
Lobeline sulphate, bots., works oz. 29.50 -33.50
Logwood extract, crystals, No. 1, bbls., l.c.l. lb. .41 - —
No. 2, bbls., l.c.l. lb. .39 - —
liquid, No. 1, bbls., l.c.l. lb. .20 - —
No. 2, bbls., l.c.l. lb. .19 - —
No. 3, bbls., l.c.l. lb. .18½- —
solid, No. 1 lb. .35 - —
Lycopodium, cs. lb. 1.50 - 1.75
Lysine hydrochloride, dextro-laevo, bots. kilo. 145.00 -149.00

M

Mace, Siauw, No. 1, bls lb. 1.50 - —
West Indian, No. 1, bls lb. 1.30 - —
Magnesia, calcined, tech., ctns. works lb. .32 - .34½
synth., rubber grade, light bgs., works lb. .23 - .25
extra light, works lb. .31 - —
USP, light, ctns lb. .34 - .36
heavy, bbls lb. .36 - .38
Magnesite, chemical grade, calcined powd., bgs., c.l., works, frt. equald ton 82.50 - —
dead-burnt, standard grain, bulk, c.l., Chewalah, Wash ton 38.00 - —
Magnesium bromide, jars lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb. .09½- —
l.c.l., frt. alld lb. .10½- —
bbls., c.l., frt. equald lb. .10¾- —
l.c.l., frt. alld lb. .11¾- —
kgs., c.l., frt. equald lb. .12 - —
Magnesium carbonate, USP, bgs., c.l., frt. equald lb. .11¼- —
l.c.l., frt. alld lb. .12¼- —
bbls., c.l., frt. equald lb. .11¾- —
l.c.l., frt. alld lb. .12¾- —
kgs., c.l., frt. equald lb. .13 - —
l.c.l., frt. alld lb. .14 - —

Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila county, Pa. Frt equald with N. Y. C. on all other destinations.

Chloride, anhyd., lump 95-96%, drums, c.l., works, frt. equald lb. .12¾- —
l.c.l., same basis lb. .14 - .15
powd., bgs., c.l., works ton 50.00 - —
l.c.l., works ton 55.00 -105.00
hydrous, flake, bgs., c.l., works, ton 50.00 - —
Gluconate, dms., cns lb. 1.30 - 1.37
l.c.l., bgs ton 55.00 -105.00
Glycerophosphate, dms., works lb. 5.40 - 5.50
Hydroxide, NF, medicinals, bbls., dms., kgs lb. .26¼- .30
Hypophosphite, dms lb. 1.60 - —
Laurate, bbls lb. .46 - .47
Metal, 99.8% ingots, cs., works lb. .27 - —
sticks, cs., works, frt. alld. on carlots lb. .46 - .48
Oleate, fused, bbls lb. .31 - —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works lb. 1.00 - 1.05
Phosphate, tribasic, NF, bbls. lb. .75 - —
Silicate (see Talc).
Silicofluoride, bbls., works lb. .09 - .10
Sulphate (see Epsom salt).
Stearate, ctns., c.l., frt. alld. lb. .38 - —
l.c.l., same basis lb. .39 - .43
Magnesium trisilicate, USP, dms., 5,000-lb. lots lb. .36 - —
1,000-lb. lots lb. .40 - —
100-lb. lots lb. .45 - —

Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.

Maleic anhydride, dms., c.l., dlvd. E lb. .27 - —
l.c.l., dlvd. E lb. .28 - —

Prices on maleic anhydride W. of Rockies, 1½c. higher.

Mandrake root, bls lb. .32 - .34
Manganese acetate, bbls., dlvd lb. .35 - —
Arsenate, bgs lb. .16 - —
Borate, tech., bbls lb. .24 - —
Carbonate, bbls., works lb. .21 - —
Chloride anhyd., dms., works lb. .20 - .23
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, paper bgs., gross for net, works ton 88.00 - —
paper-lined burlap bgs., works ton 91.50 - —
dms., works ton 94.00 - —

Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.

Gluconate, dms. lb. 1.79 - 1.93
Glycerophosphate, NF, fib dms lb. 4.70 - 4.80
Hydrate bbls., dlvd lb. .33¼- —
Hypophosphite, NF dms lb. 2.00 - —
Linoleate, liquid 4.35% Mn., dms. lb. .30½- —
solid, precip. 8.2% Mn., bbls lb. .33½- —
Metal, cs., dlvd. East lb. .30 - —
Naphthenate, liquid 6% Mn., dms., frt. alld lb. .27 - —
Oleate, precip., bbls lb. .33½- —
Resinate, fused, 3½% Mn., dms. lb. .21¾- —
precip., dms lb. .24½- —
Stearate, ctns., c.l. lb. .33 - —
l.c.l. lb. .39 - .40
Sulphate, fertilizer grade 65% bgs., c.l., dlvd. S. E ton 80.50 - —
l.c.l., dlvd. S. E ton 87.50 - —
Tallate, 6% dms lb. .24¼- —
Mangrove bark, E. African, 38% tannin, c.l., ex dock ton 72.00 -73.00
So. American, 30% tannin, c.l., ex dock ton 55.00 -59.00
Mannitol, com'l dms., works lb. .40 - .43
reagent, 50-lb dms., works lb. .85 - —
Melamine, bgs., ton lots, works lb. .33 - —
500 to 2,000-lb lots, works lb. .33½- —
smaller lots, works lb. .38½- —
Menadione, USP, bots. gram .06 - .06¼
Menthol, natural, USP, Brazilian, cs. lb. 5.00 - —
Japanese, cs. lb. 8.50 Nom.
synthetic, USP, racemic, cns lb. 4.95 - —
Menthyl salicylate tins lb. 4.00 4.25
Mercaptobenzothiazole, bgs., no. dms. ton lots works, frt. alld lb. .38 - —
less ton lots, same basis lb. .40 - —
Mercaptobenzothiazyl disulphide, bgs., fib. dms., ton lots, works frt alld lb. .48 - —
less ton lots, same basis lb. .50 - —
Mercury, ammoniated (see White precipitated, USP).
Bichloride (see Corrosive sublimate).
Chloride (see Calomel)
Cyanide, NF VIII, powd., fib. dms. lb. 5.29 - —
Iodide, red, NF, fib. dms. lb. 6.47 - —
yellow, NF, fib. dms lb. 6.72 - —
Metal (see Quicksilver)
Oxide, red, NF (see Red precipitate).
yellow, tech (see Yellow, mercury oxide)
USP fib dms lb 4.64 -
Mesityl oxide, dms., c.l., dlvd. lb. .1350- —
l.c.l., dlvd. lb. .1450- —
tanks, dlvd. lb. .1150- —
Metaldehyde, dms., works lb. .95 - 1.25
Meta-aminophenol, distilled, dms., ton lots lb. 2.05 - —
less than ton lots lb. 2.50 - —
Metachloroanilin, dms., c.l., frt. equald lb. .75 - —
l.c.l., same basis lb. .80 - —
Metacresol, 98%, dms., c.l., works lb. .73½- —
l.c.l., works lb. .74½- —
Metanitroanilin dms., frt. alld lb. 1.05 - —
Metanitroparatoluidin, bbls lb. 1.50 - —
Metaphenylenediamine bgs. frt. alld. lb. .90 - —
Metatoluidine, bbls., c.l., works, frt. alld lb. .79 - —
l.c.l., same basis lb. .80 - —
tankcars, same basis lb. .78 - —
Metatolylenediamine, crystals, fib. dms., frt. alld lb. .94 - —
powder, fib. dms., same basis lb. 1.00 - —
Methanol, natural denaturing grade, dms., c.l., frt. alld gal. .78 - —
l.c.l., frt. alld gal. .79 - —
tanks, frt. alld gal. .70 - —

Prices on natural methanol W. of Miss. 3c. higher

synthetic, dms., dlvd gal. .44 - —
l.c.l., dlvd. gal. .49 - —
tanks, dlvd. gal. .32 - —
Methenamine (see Hexamethylenetetramine)
Methionine, dextro-laevo, fib dms. frt alld 50-lb or more lb 4.55 - —
feed grade, 98% fib., dms., same basis lb 3.00 - —
97% fib dms same basis lb 2.97 - —
Methoxychlor 50% wettable powder, dealers dms. cs., frt. alld lb. .61 - .64
Methyl abietate, non-ret. dms., c.l., dvld. zone 1 lb. .20½- —
l.c.l., same basis lb. .21 - —
hydrogenated, zone 1, non-ret. dms., c.l., dlvd lb. .21 - —
l.c.l., same basis lb. .21½- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetone, nat., dms., l.c.l., E. of Miss., frt. alld gal. .62½- —
syn., dms., c.l., dlvd. E gal. .66½- —
l.c.l. dlvd E gal. .72¼- —
tanks, dlvd E gal. .54½- —

Synthetic methyl acetone E. territory in all States East of and including Colo., Mont., N. Mex. and Wyo. West territory in all States West of those four.

Acrylate, dms., c.l., and truckload works lb. .45½- —
less than truckload works lb. .46 - —
tanks, works lb. .42¾- —
Alcohol (see Methanol).
Anthranilate, cns. lb. 2.50 - 2.65
Benzoate, cns., dms lb. .53 - .65
Bromide, jobbers, cyls., various sizes works lb. .47 - .61
Chloride, indust., cyl., frt. equald., lb. .21 - —
tanks, multi-unit, same basis lb. .15 - —
single unit, same basis lb. .11½- —
refrigerator mfrs., cyls., dlvd lb. .40 - .42
other consumers or service men, cyls., dlvd lb. .57 - —
Cinnamate, cns. lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works lb. .35½- —
l.c.l., works lb. .36 - —
tanks, works lb. .34 - —
Formate, refd., dms lb. .35 - .40
tech. non-ret. dms. any quantity works lb. 08 - —
tanks works lb. .07 - —
Lactate, dms., l.c.l., works lb. .35 - —

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Ethylene Dichloride • Sodium Methylate • Hydrazine Products • Chlorobenzenes • Ethylene Diamine

Methyl methacrylate, dms., c.l., and truckload, frt. equald., with Belle, W. Va., and Arlington, N. J. lb. .36½- —
smaller lots, same basis lb. .37 - —
tanks same basis lb. .35 - —
Parahydroxybenzoate, USP, bots. lb. 2.10 - 2.20
fib dms lb 1.90 2.00
Roseanilin chloride, NF, fib. dms. lb. 5.44 - —
Salicylate, USP, dms lb. .53 - —
cns., 50 lbs lb. .58 - —
Testosterone, USP, 100-gm. lots. gm. .79 - —
Methylamyl acetate, dms. c.l., dlvd. E lb. .15 - —
l.c.l., dlvd. E lb. .16 - —
tanks, dlvd E lb. .13 - —
Ketone, dms., works lb. 1.05 - —
Methylcellulose special, vis., (1,500-4,000 cps.) 50-lb bgs., c.l., works lb. .78 - —
2,000-lb. lots and more, same basis lb. .85 - —
smaller lots, frt. alld. on 100 lbs lb. .89 - 1.00
standard vis. (15-400 cps.), 50-lb. bgs., c.l., alld lb. .66 - —
2,000-lb. lots and more, same basis lb. .72 - —
smaller lots, frt. alld. on 100 lbs lb. .75 - .85
b-Methylnaphthalene, 32°C m.p., dms., works lb. .90 - —
Methylene blue, kegs, 100-lb. lots, frt adjusted lb 3.25 3.60
smaller lots same basis lb. 3.40 - 3.60
Chloride, industrial, dms., c.l., dlvd. E lb .13½ —
Methylethylketone, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd. lb. .14 - —
tanks, dlvd lb. .11 - —
Methylethylpyridin, dms., c.l., works. lb. .47¼ —
l.c.l works lb 48 —
tanks, works lb. .46 - —
Methylheptincarbonate, bots lb.33.00 -42.00
Methylionone A cns lb 6.55 8.80
D, cns lb 7.50 9.55
prime cns lb 4.53 6.40
Methylisobutyl carbinol (See Carbinol, methylisobutyl)
Ketone, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .13 - —
Methylnaphthyl ketone, cans lb. 3.60 - 3.95
Methylparaben (see Methyl parahydroxybenzoate)
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone, dms., 250-lb. lots, dlvd lb. 1.70 - —
smaller lots, dlvd lb. 2.00 - —
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works lb. .04¼- —
roofing, 20 to 80 mesh, works lb. .03 - .04
wet-ground, muscovite, bgs., c.l., works, frt. alld., E lb. .06¼- —
l.c.l., ex whse. or frt. alld. E lb. .07 - —
paint or lacq., bgs., c.l., works, frt. alld lb. .07¾- —
l.c.l., ex whse. or frt. alld. E lb. .08½- —
rubber, bgs., c.l., works, frt. alld. E lb. .07½- —
l.c.l., ex whse. or frt. alld. E lb. .08½- —
wallpaper, bgs., c.l., works, frt. Alld., E lb. .07¾- —
l.c.l., ex whse. or frt. alld. E lb. .08¼- —
white, extra fine, bgs., c.l., works, frt. alld. E lb. .07¾- —
l.c.l., ex whse or frt. alld. E lb. .08½- —
Mica, wet-grd., W. of Miss. R., ½c. higher; W. of Rockies, 1c. higher.
Milk powder, skimmed, roller, bbls., c.l. lb. .14 - .16¾
spray, bbls., c.l. lb. .16¼- .17¾
whole, roller, bbls., c.l. lb. No prices.
spray, bbls., c.l. lb. .32½- .35½
Sugar, crude, bgs., c.l., works lb. .18 - —
edible, bgs., 30,000-lb. lots, works lb. .24 - —
2,000-lb. lots, works lb. .24¾- —
200-1,800-lb. lots, works lb. .25¼- —
Edible milk sugar in fib dms., 1c. higher.
USP, fib. dms., 30,000-lb. lots, works lb. .29 - —
2,000-lb lots, works lb. .29¾- —
200-1,800-lb. lots, works lb. .30¼- —
USP milk sugar in bgs. 1c lower
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap teed grade, tanks, New Orleans gal. .10 - .10½
New York gal. .12½- —
Molybdenum metal, 98% Mo powd., kgs lb. 3.00 Nom.
Trioxide, pure, kgs., works, basis Mo. content lb. 1.40 - —
technical, kgs. works, basis Mo. content lb 1.15 - —
Monobutylamine, dms., c.l., E. of Rockies lb. .55 - —
l.c.l., same basis lb. .56 - —
tanks, same basis lb. .53 - —
Monochlorobenzene dms., c.l., frt. alld. or dlvd. E lb. .11½- —
l.c.l., same basis lb. .12½- —
tanks, same basis lb. .10 - —
Monochlorobenzene prices in the West, 1¼c higher.
Monoethanolamine, dms., c.l., dlvd. E. lb. .29¾- —
l.c.l., same basis lb. .30¾- —
tanks, same basis lb. .28 - —
Monoethylalphanaphthylamine, dms., works lb. 1.02 - —
Monoethylamine, 70% contained amine, dms., c.l., dlvd. E. lb. .33 - —
l.c.l., dlvd. E lb. .34 - —
tanks, dlvd. E lb. .31 - —
Monoethylaniiin, dms., c.l., frt. alld. lb. .51 - —
l.c.l., frt. alld lb. .52 - —
tanks, frt. alld lb. .50 - —
Monoethylorthotoluidin, bbls lb. .88 - —
Monoisopropylamine, dms., c.l., dlvd. lb. .30½- —
l.c.l., same basis lb. .31½- —
tanks, same basis lb. .28½- —
Monomethylamine, 25%-40% dms., c.l., frt. equald., basis 100% lb. .27 - —
l.c.l., same basis lb. .37½- —
tanks same basis lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Glutamate (see Sodium glutamate monobasic).
Phosphate (see Sodium phosphate monobasic).
Mono-tertiary-butylmetacresol, dms., c.l., works lb. .49 - —
l.c.l., works lb. .50 - —
tanks, works lb. .48 - —
Morphine, cns oz. 12.40 -12.60
Acetate, anhyd., cns oz. 9.95 -10.00
Hydrobromide, cns oz 9.90 9.95
Hydrochloride, NF, cns oz. 9.90 9.95
Sulphate USP cns oz. 9.90 -10.05
Morpholine dms., c.l., dlvd. E lb. .54¾- —
l.c.l. dlvd E lb. .55¾- —
tanks, dlvd. E lb. .52¾- —

Musk, natural, Tonquin grains, bots. oz. No stocks.
synthetic, ambrette, 100-lb. tots, fib. dms. lb. 5.15 - —
25-lb. lots, cns lb. 5.20 - —
5-lb. lots, cns lb. 5.30 - —
ketone, 100-lb. lots, fib. dms. lb. 5.30 - —
25-lb lots cns lb. 5.35 - —
5-lb. lots, cns lb. 5.45 - —
xylol, 100-lb. lots, fib. dms lb. 1.40 - —
25-lb lots, cns lb. 1.45 - —
5-lb. lots, cns lb. 1.50 - —
Mustard seed, Danish, yellow, bgs. lb. .11 - .11½
Dutch yellow, bgs lb. .10½- .11
English, yellow, bgs lb. .11 - .12
Montana, Oriental, bgs lb. .12 - —
yellow, bgs. lb. .09 - —
Myrobalans, J-1, assorted, bgs., ex dock ton.48.00 Nom.
crushed, bgs., ex dock ton.61.50 - —
ordinary, bgs., ex dock ton.44.00 - —
extract, Indian, solid 53% tannin, ex dock, plus duty lb. .07¼- —

N

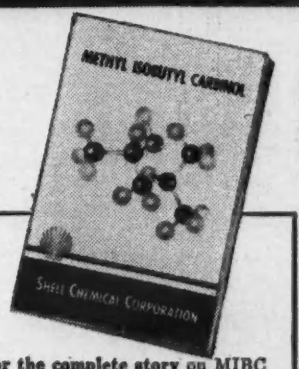
Naphtha, painters (see Petroleum naphtha V M & P.).
Solvent (see 3-
Naphthalene, crude, dom. 74° tanks, frt. equald. lb. .045 - —
78°, dms., c.l., same basis lb. .059 - —
l.c.l., same basis lb. .0615- —
tanks, same basis lb. .05 - —
imported, 78°, large lots lb. .0335- .035
refined, industrial, dom., chipped or crushed, bgs., frt. equald lb. .10½- —
flake, bgs., same basis lb. .11½- —
tanks, same basis lb. .09¾- —
Naphthalene, refined, balls, flakes, wholesalers, jobbers, bbls., c.l., same basis lb. .13¾- —
cn., 50 lbs., c.l., same basis lb. .14 - —
1-lb. pkgs c.l., same basis lb. .16¼- —
a-Naphthol, bbls., frt. alld lb. 1.00 - —
b-Naphthol, resublimed, dms., works. lb. .78½- —
tech., bbls., c.l., works lb. .32½- —
l.c.l., works lb. .34½- —
Benzoate, fib. dms., works lb. 3.00 - —
custom contract lb. 1.65 - —
Salicylate, dms lb. 5.00 - —
Sulfate, cns lb.35.00 - —
a-Naphthylamine, bbls., frt. alld lb. .50 - —
b-Naphthylamine, tech., bbls., works. lb. 1.05 - 1.10
Neocinchophen, USP dms., frt. adjusted lb 7.00 8.00
Neomycin fib. dms., 100-kilo tots, basis, activity gm. .80 - —
1-kilo lots, basis, activity gm. 1.20 - —
Nepheline syenite glass 24 mesh, bulk, works ton.14.25 - —
pottery, 200 mesh, bulk, works, N Y ton.18.25 - —
Nepheline syenite in bgs. $3 per ton higher than bulk.
Nerolin, cns lb. 2.15 - 2.65
Niacin (see Acid, nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd lb. .75 - .83¼
Carbonate, bbls., dlvd lb. .71 - .78
Chloride, bbls., dlvd lb. .37 - .45
Formate, bbls., ton lots, frt alld. lb. .64 - .65

Methyl Methacrylate—Nitrocellulose

Nickel, metal, electro cathodes, cs., works lb. .60 - —
Nitrate, bbls., works lb. .36 - .37
Oxide, black, bbls lb. .69 - —
Sulphate, bgs., c.l., dlvd lb. .29 - —
l.c.l., dlvd lb. .29½ .37
Nicotinamide, USP, dms., frt. adjusted kilo 12.00 -12.30
Hydrochloride, dms., frt. adjusted kilo. 11.50 -11.80
Nicotine sulphate, 40%, dealers, 50-lb. dms., frt. alld lb. 1.20 - —
manufacturers, 500-lb. dms., frt. alld lb. 1.03 - —
Niger seed, bgs lb. .14 Nom.
Nikethamide, cbys. lb. 7.50 - 8.00
Nitrobenzene, dbl. dist., dms., c.l., frt. alld lb. .12 - —
l.c.l., frt. alld lb. .13 - —
tanks, frt. alld lb. .11 - —
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .34 - —
l.c.l., same basis lb. .35 - .37
18-25 cps., bbls., c.l lb. .36 - —
l.c.l., same basis lb. .37 - .39
250-400, 600-1,000 secs., bbls., same basis lb. .39 - —
l.c.l., same basis lb. .40 - .42
spirit-soluble, 30-35 cps., ¼, ½, sec., bbls., same basis lb. .41 - —
l.c.l., same basis lb. .42 - .44
5-6, 40-60 secs., bbls., c.l., same basis lb. .40 - —
l.c.l., same basis lb. .41 - .43
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.

MIBC

. . . an important member of the Shell "Quality Group" of solvents to help you produce better lacquers at lower cost . . .



Methyl isobutyl carbinol—companion *latent* solvent to the powerful Shell ketone *active* solvents—makes it possible for you to use greater quantities of low-boiling alcohols while maintaining good blush resistance, gloss and flow.

Blended with IPA to offset its slower evaporation rate, MIBC allows greater flexibility in formulation to meet the lacquer specifications of individual customers.

You can order MIBC with other solvents in compartment trucks or tank cars for short notice delivery at bulk prices.

The famous Shell "Quality Group" of solvents includes, among others, MEK, MIBK and IPA . . . preferred by the nation's leading formulators.

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Nitroethane—Oil, Pineneedle

Nitroethane, dms., dlvd. E. of Rockies	lb.	.35	- —
Nitrogen solution, tanks, works, 37-40.8% N, basis 100%	ton.	128.00	- —
Nitrogenous process tankage bulk, works	unit-ton.	3.50	- 4.40
Sewage sludge, bulk, works	unit-ton.	3.75	+ .50
Nitromethane, dms., t.c.l., dlvd E. of Rockies	lb.	.25	- —
a-Nitronaphthalene, bbls, frt. alld.	lb.	.41	- —
Nonylphenol, dms., c.l., works, frt. alld	lb.	.30	- .30¾
l.c.l., works	lb.	.30½	- .31¼
tanks, works	lb.	.29	- —
Nutgalls, Aleppo, bgs.	lb.	.38	- —
Chinese, bgs	lb.	.45	Nom.
Nutmeg, East Indian, whole, cs	lb.	.39	- .40
shrivels, bgs.	lb.	.39	- .40
West Indian, bgs.	lb.	.29	- —
Nux vomica, bls	lb.	.10	- 12
powdered, bbls., bxs	lb.	.15	- .17

O

Octane, industrial, tanks, Bayonne, N. J	gal.	.19	- —
Baytown, Tex.	gal.	.15¾	- —
Borger, Tex.	gal.	.15¾	- —
Octanol, normal, tech., d-ns., c.l., dlvd	lb.	.35	- —
l.c.l., dlvd	lb.	.37	- —
tanks, dlvd	lb.	.32½	- —
Octylphenol, dms., c.l., works	lb.	.23¾	- —
l.c.l., works	lb.	.24¾	- —
tanks, works	lb.	.22¾	- —

(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)

Oil, abies siberica, cns	lb.	2.05	- 2.55
Almond, artificial, bitter (see Benzaldehyde).			
natural, bitter, F.P.A., bots	lb.	3.00	- 3.40
NF, bots.	lb.	3.25	- 3.75
sweet, USP, dms., cns	lb.	.70	- .90
Allspice (see Oil, pimento).			
Amyris, dms.	lb.	1.40	- 1.80
Angelica root, bots	lb.	70.00	-120.00
seed, bots	lb.	56.00	-95.00
Anilin (see A).			
Apricot, kernel, USP, dms	lb.	.45	- .50
Avocado, cns	lb.	3.25	- —
Babassu, crude, tanks	lb.	No stocks.	
Bay, NF, Puerto Rican, 50-55%, cns	lb.	1.45	- 1.90
55-60%, cns.	lb.	1.65	- 2.10
West Indian, 50-55%, cns., dms.	lb.	1.45	- 2.25
Bergamot, artif., cns.	lb.	2.90	- 6.00
natural, NF, Italian, cns	lb.	10.75	-13.00
Birchtar, crude, cns	lb.	1.75	- 2.00
rectified, NF, cns.	lb.	2.50	- —
Bois de rose, Brazil dms.	lb.	3.95	- 4.25
Mexican (see Oil, lignaloe wood).			
Bone, dms. worgs	lb.	.65	- .70
Cajeput, native, cns	lb.	1.90	- —
redist., USP, cns	lb.	2.45	- 3.00
Calamus, bots.	lb.	12.00	-20.00
Camphor, sassafrassy, dms.	lb.	.20	- .40
white, dms	lb.	.19	- .45
Oil, cananga, native, cns	lb.	8.50	-10.25
rectified, cns.	lb.	12.50	-13.75
Capsicum (see Capsicum oleoresin).			
Caraway, NF, cns	lb.	2.65	- 3.30
Cardamom, NF, bots.	lb.	37.00	-40.00
Cassia, USP (see Oil, cinnamon, USP).			
Castor, blown, dms., c.l.	lb.	.2100	- —
l.c.l.	lb.	.2250	- —
dehydrated, bodied, dms., c.l.,	lb.	.2360	- —
l.c.l.	lb.	.2410	- —
tanks	lb.	.2260	- —
unbodied, dms., c.l.	lb.	.2210	- —
l.c.l.	lb.	.2260	- —
tanks	lb.	.2110	- —
hydrogenated, bgs., l.c.l.	lb.	.2650	- —
No. 1, Brazilian, tanks	lb.	.1550	- —
USP, dms., c.l.	lb.	.1900	- —
l.c.l.	lb.	.1950	- —
tanks	lb.	.1800	- —
refined and deodorized, dms., c.l.	lb.	.2050	- —
l.c.l.	lb.	.2100	- —
tanks	lb.	.1950	- —
No. 3, tech., dms., c.l.	lb.	.1875	- —
l.c.l.	lb.	.1925	- —
tanks	lb.	.1775	- —
sulphonated, 50%, dms., l.c.l.	lb.	.13½	- .14
75%, dms., l.c.l.	lb.	.17	- .17½
Cedarleaf, cns., dms	lb.	2.25	- 3.00
Cedarwood, cns., dms	lb.	.55	- .75
Celery seed, bots	lb.	15.50	-21.00
Chamomile, blue, Hungarian, bots.	lb.	175.00	-280.00
Chaulmoogra, NF, cns., d.s.e.	lb.	.55	- .70
Chinawood (see Oil, tung).			
Cinnamon bark, bots	lb.	25.50	-60.00
leaf, cns.	lb.	1.25	- 3.25
USP, cns., dms., (Cassia)	lb.	No stocks.	
Citronella, Ceylon, cns., dms.	lb.	.65	- 1.00
Java, true, dms	lb.	.70	- .80
Java-type, cns.	lb.	.65	- .93
Clove, USP, cns., dms.	lb.	4.75	- 6.40
Oil, coconut, crude, tanks, N. Y.	lb.	.16¾	Nom.
Pac. Coast	lb.	.15½	- —
refined, Cochin type, tax incl., ret. dms., l.c.l.	lb.	.24	- —
deodorized, tax incl., non ret. dms., c.l.	lb.	.26¾	- —
Cod, Newfoundland, dms	lb.	.09½	- .10
Codliver, USP, dms.	gal.	1.55	- 1.65
Copaiba, cns.	lb.	1.80	- 2.50
Coriander, USP, bots	lb.	16.90	-22.00
Corn, crude, tanks, works	lb.	.13½	- —
foots (soapstock), acid 95%, tanks, N. Y.	lb.	.05½	Nom.
refined, salad, dms.	lb.	.18¼	- .18½
tanks	lb.	.16¾	- —
Costus, bots.	oz.	9.00	- —
Cottonseed, crude, tanks, South-East	lb.	.12⅝	Nom.
Valley	lb.	.12⅜	- .12¼
Texas	lb.	.12⅜	Nom.
foots (soapstock), acid 95%, tanks, N. Y.	lb.	.03¾	- —
raw, 50%, tanks, same basis.	lb.	.01⅞	- —
refined, salad, dms.	lb.	.17⅛	- .18¼
tanks	lb.	.16¼	- .16⅜
Creosote (see Creosote, coaltar).			
Croton, cns.	lb.	4.30	- 5.50
Crude (see Petroleum, crude).			
Cubeb, cns.	lb.	4.50	- 6.00
Cumin, bots., cns.	lb.	4.75	- 5.25
Cypress, bots.	lb.	5.30	- —
Degras (see D).			
Dillseed, bots.	lb.	2.80	- 4.25
Dillweed, dom., dms., bots	lb.	3.75	- 5.25
Dip (see D)			
Erigeron, cns.	lb	5.50	- 7.50
Eucalyptus, NF, rectified, 70-80%, dms	lb.	.60	- .95
80-90%, dms.	lb.	.87	- 1.25
Fennel, sweet, USP, cns	lb.	2.30	- 3.25
Fir, Canada, cns	lb.	2.65	- 3.10
Fish, refined, alkali, dms	lb.	.1450	- .1550
kettle-bodied, dms.	lb.	.1630	- .1730
light-pressed, dms.	lb.	.1300	- .1400
tanks	lb.	.11½	- —
Fishliver, crude, for feeds or concentrating, 4,000 to 12,000 A units per gm., dms., 1,000,000 units.		.08	- .09
10,000 to 20,000 A units per gm., dms. 1,000,000 units.		.09	- .10
25,000 to 35,000 A units per gm., dms 1,000,000 units.		.09	- .10
40,000 to 55,000 A units per gm., dms. 1,000,000 units		.10½	- .11
100,000 A units per gm., dms. 1,000,000 units.		.12	- .14
200,000 A units per gm., dms. 1,000,000 units.		.12	- .14
300,000 A units per gm., dms. 1,000,000 units.		.12	- .14½
400,000 A units per gm., dms. 1,000,000 units.		.12	- .14½
500,000 A units per gm., dms. 1,000,000 units.		.12	- .14½

Prices above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1900.

Fusel (see F).			
Garlic, pure, bots.	oz.	8.15	- 9.50
Gaultheria (see Oil, wintergreen).			
Geranium, Algerian, cns.	lb.	10.00	-10.75
Bourbon, cns.	lb.	10.75	-13.50
Turkish (see Oil palmarosa)			
Ginger, dist., bots.	lb.	10.00	-13.00
Grapefruit, dms.	lb.	3.15	- 3.25
Grease, No. 1, dms	lb.	.12	- .12½
extra, winter, strained, dms	lb.	.16	- .16½
prime, burning, dms.	lb.	.16¾	- .17
Guaiacwood, cns.	lb.	1.40	- 1.90
Hemlock, cns.	lb.	2.10	- 2.50
twice rectified, bots	lb	3.60	- 7.00
Tar, NF (see Juniper tar).			
Wood tech cns	lb.	.42	- .50
Juniper berry, NF, VIII, bots	lb.	2.70	- 4.00
Lard (see Oil grease).			
Laurel leaf, dms., cns.	lb	9.75	-12.50
Lavandin, dms., cns	lb.	2.00	- 2.75
Lavender, flower, USP, French, 30-32% ester, cns.	lb.	2.50	- 4.50
38-40% ester, cns.	lb.	5.60	- 7.25
40-42% ester, cns.	lb.	6.40	- 7.60
Spike, Spanish, cns.	lb.	1.50	- 2.00
Lemon, USP, Calif., cns., dms	lb.	7.10	- 7.50
Messina, cns.	lb.	7.00	-10.00
terpeneless, bots	lb.	32.00	-85.00
Lemongrass, cns., dms	lb.	1.35	- 1.65
Lignaloe wood, Mex., cns	lb.	3.25	- 4.25
Lime, distilled, Mexican, cns	lb.	5.25	- 6.50
West Indian, cns	lb.	5.40	- 7.25
expressed, West Indian, cns	lb.	7.75	- 8.50
terpeneless, bots.	lb.	29.50	-100.00
Linseed, raw, dms., c.l., N. Y.	lb.	.1675	- .1695
l.c.l.	lb.	.1745	- .1765
tankcar, f.o.b. Minneapolis	lb.	.1400	- .1420
New York	lb.	.1525	- .1545
tankwagon, New York	lb.	.1555	- .1575
Boiled linseed oil, .006c per lb higher.			
Mace, dist., cns., dms.	lb.	2.45	- 4.25
Mandarin, Floridian, dms	lb.	2.75	- 5.35
Italian, cns	lb.	6.25	- 8.50
Menhaden, crude, tanks, Atlantic Coast	lb.	.07½	- Nom.
Gulf ports	lb.	.07½	- Nom.
Mineral, white (see Oil, white mineral).			
Mirbane (see Nitrobenzene).			
Mustard seed, nat., dms.	lb.	.15¾	- .16
synthetic, cns., dms	lb.	1.60	- 1.85
Neatsfoot, 15° cold test, dms.	lb.	.33	- .34
20° cold test, dms.	lb.	.32	- .33
30° cold test, dms.	lb	.30	- .31
Neroli, NF, French, bots	lb.	165.00	-250.00
petale, bots.	lb.	38.50	-150.00
Nutmeg, USP dist., East Indian, cns., dms	lb.	2.85	- 3.65
West Indian, cns., dms	lb.	2.60	- 3.65
Ocotea cymbarum, dms.	lb.	.68	- 1.00
Oiticica, liquid, dms.	lb.	.23	Nom.
Oleo, extra, dms.	lb.	.18½	Nom.
Oleo, extra, dms.	lb.	18⅛	- 18¾
Olibanum, bots.	lb.	5.50	- 7.65
extra fine, bots	lb	8.00	- —
Olive, edible, dms., duty paid	lb.	2.35	- 2.45
Orange, sweet, dist., cns	lb.	.40	- .80
expressed, USP, Brazilian, cns., dms	lb.	No stocks.	
Calif., cns., dms.	lb.	.70	- 1.25
Florida, cns., dms.	lb.	.64	- 1.25
Messina, cns.	lb.	3.85	- 5.85
West Indian, cns., dms	lb.	2.50	- 3.65
sesquiterpeneless, bots.	lb.	100.00	-150.00
Origanum, Spanish, cns.	lb.	1.95	- 2.85
Palm, clarified, dms.	lb.	.13	- —
Kernel, tankcars	lb.	.15¾	Nom.
Palmarosa, cns.	lb.	5.00	- 8.75
Paraffin, pale, 100-110 vis., at 100°F. tanks, East Coast refinery	gal	14	- —
Patchouli, dms.	lb.	7.50	- 9.25
Peach kernel, USP (see Oil apricot kernel).			
Peanut, crude, tanks, f.o.b. mills	lb.	.18	- —
refined, dms.	lb.	.23½	- .24
tanks	lb.	.22	- —
Pennyroyal, USP, imported, cns.	lb.	1.80	- 2.40
Peppermint, natural, dms.	lb.	5.60	- 6.35
redist., USP, dms.	lb.	5.85	- 7.50
Persic, USP (see Oil, apricot kernel).			
Petitgrain, S. American, cns., dms.	lb.	2.75	- 2.90
Pimento berry, NF, dms.	lb.	4.20	- 6.00
leaf, cns.	lb.	2.35	- 2.75
Pine, dest., dist., dms., extra, o.l., works	gal.	.75¼	- —
l.c.l.	gal.	.76½	- —
ex whse.	gal.	.95½	- —
steam dist., dms., ex whse., N.Y.C.	lb.	.143	- .153
Pineneedle, Siberian (see Oil, abies siberica).			

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Oil, putty, petroleum, dms., c.l., dlvd.	lb.	.11	—
l.c.l., same basis	lb.	.12	—
tanks, same basis	lb.	.10	—
Rapeseed, tankcars	lb.	.16½-	—
Red (see Acid, oleic).			
Rice bran., clarif., dms.	lb.	.16⅓-	.16¾
tanks, dlvd. E.	lb.	.14½-	—
Rose, natural, Bulgarian, bots	oz.	55.00	-62.25
Rosemary, Spanish, tech., cns., dms.	lb.	.60	- .70
USP, cns., dms.	lb.	.80	- 1.00
Rue, bots	lb.	2.25	- 2.50
Safflower dms. c.l., Atlantic coast.	lb.	.17¼-	—
tanks, same basis	lb.	.15¾-	
Sage, clary bots	lb.	20.00	-25.00
Dalmatian, cns.	lb.	6.25	- 8.25
Spanish cns	lb.	.90	1.25
Sandalwood, NF, cns	lb.	9.25	-11.50
Sardine, crude, tanks, Pac. coast.	lb.	No stocks.	
Sassafras, artificial, dms.	lb.	.60	- .90
natural Brazilian (See Oil, ocotea cymbarum)			
domestic, USP, cns., dms.	lb.	1.70	- 2.25
Savin, cns	lb.	2.75	- —
Savory, cns	lb	No stocks.	
Sesame, refd., dms	lb.	.36	- .37
Shingle stain, tar distillate, dms., c.l., works	lb.	.33	- —
l.c.l., works	lb.	.35	- —
tanks, works	lb.	.23	- —
Snakeroot, Canada, cns	lb.	29.50	-31.00
Soybean, crude, tanks, Decatur	lb.	.12⅜	Nom.
foots (soapstock), acid, 95%, tanks, N. Y.	lb.	.07¼-	—
raw, 50%, tanks, N. Y.	lb.	.02⅞-	—
refined, alkali, dms.	lb.	.16⅜-	.16⅞
tanks	lb.	.15	- —
clarified, alkali, dms.	lb.	.16	- .16⅜
tanks	lb.	.14½-	—
salad, dms.	lb.	.17¼-	.17½
tanks	lb.	.15⅝-	—
Spearmint, USP, dms.	lb.	6.00	- 6.55
Sperm, bleached winter, 42°, dms.	lb.	.1375-	.1450
tankcars	lb.	.1200-	—
natural winter, 45° dms.	lb.	.1273-	.1325
tankcars	lb.	.1100-	—
Spruce, cns., dms.	lb.	2.10	- 2.75
Sweet birch, USP, Northern, cns.	lb.	4.25	- 9.50
Southern, cns	lb.	2.00	- 3.00
Tall, crude, tanks, works	ton.	45.00	- —
refined, dms., c.l., works	lb.	.06¼-	.07⅛
l.c.l. works	lb.	.06½-	.07½
tanks, works	lb.	.05	- .06
Tallow, acidless, dms.	lb.	.13½-	.13¾
Tansy, dms.	lb.	7.75	- 9.00
Tar, pine, com'l. dms., extra, c.l., works	gal.	.42½-	—
l.c.l., works	gal.	.50½-	—
whse	lb.	.0678-	—
tanks, works	gal.	.33½-	—
rectified, NF, dms. incl., l.c.l., works, South	gal.	.90	- —
whse., N.Y.C.	gal.	1.00	- —
Tar acid (see Cresylic acid).			
Theobroma (see Cocoa butter).			
Thyme, NF, red, cns., dms.	lb.	1.70	- 3.75
white, cns.	lb	1.95	- 4.00
tech. white, cns	lb.	.40	- 1.85
Tung, dms., c.l., N. Y.	lb.	.26	- —
l.c.l., same basis	lb.	.26½-	.27
tanks, N. Y.	lb.	.24	Nom.
domestic mills	lb.	.24	Nom.
Turkey red (see Oil, castor, sulphonated).			
Turpentine, NF, cns., dms.	lb.	.39	- .45
Vetiver, Bourbon, cns.	lb.	15.00	-19.50
Haitian, cns.	lb.	12.25	-21.00
Java, cns.	lb.	22.50	-40.00
Wheat germ, 5-gal. dms	gal.	10.00	-13.00
White mineral, tech., 50-65 vis., non-ret. dms., c.l., f.o.b., N. Y.	gal.	.51½-	.54½
65-75 vis., non-ret., dms., c.l., same basis	gal.	.52½-	.55
l.c.l., same basis	gal.	.57½-	.58½
N.F. 80-90 vis., non-ret., dms., c.l., same basis	gal.	.53½-	.56½
l.c.l., same basis	gal.	.58½-	.59½
125-135 vis., non-ret., dms., c.l., same basis	gal.	.59½-	.62½
l.c.l., same basis	gal.	.64½-	.65½
145-155 vis., non-ret., dms., c.l., same basis	gal.	.66	- .68½
l.c.l., same basis	gal.	.71	- .71½
175-185 vis., non-ret., dms., c.l., same basis	gal.	.69½-	.73
l.c.l., same basis	gal.	.74½-	.75
USP 200-210 vis., non-ret. dms., c.l., same basis	gal.	.72½-	.75
l.c.l., same basis	gal.	.77½-	.78
345-355 vis., non-ret., dms., c.l., same basis	gal.	.77	- .80
l.c.l., same basis	gal.	.83	- .85
Wintergreen, USP, nat., Northern, cns	lb.	7.15	-14.50
Southern, cns	lb.	3.20	-19.50
synthetic (see Methyl salicylate).			
Wood (see Oil, cade).			
Wormseed, cns.	lb.	4.75	- 8.25
Wormwood, cns.	lb.	5.50	- 6.85
Ylang-ylang, Bourbon, bots.	lb.	20.00	-30.00
extra, bots	lb.	30.50	-40.00
Madagascar, bots	lb.	No stocks.	
Oleostearine, bbls.	lb.	.12	Nom.
Olivine aggregate, bulk, c.l., mines.	ton.	7.00	- 9.50
crushed 8 mesh bulk, c.l. works	ton.	10.00	- —
paper bgs, c.l., works	ton.	12.00	- —
Opium, USP, cns.	lb.	19.20	-19.45
gran., USP, cns.	lb.	21.65	-21.90
powd., USP cns	lb.	21.65	-21.90
Orange, cadmium (lithopone, bbls., frt. alld. E. of Rockies	lb.	1.61	- —
Chrome, CP, bbls., dlvd N. of Tenn and N. C., E. of Miss. R., include Davenport, Penn. and N. C. E. of Minneapolis, Rock Island, St. Louis, St. Paul	lb.	.31	- —
Chrome orange prices are ½c. higher dlvd Ala., Fla., Ga., La. (Shreveport), 1¼c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., 1½c. El Paso, Tex., 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.			
Dinitroanilin toner	lb.	1.30	- —
Mineral, American, bbls, l.c.l., works	lb.	.1835-	.1860
Molybdated, bbls.	lb.	.44	- —
Orthonitroanilin toner, kgs.	lb.	1.15	- —
Persian, bbls.	lb.	.65	- —
Peel, bitter, Haitian, bls.	lb.	.14	- .16
sweet, bls	lb.	.18	- .20
Orris root, Florentine, bls.	lb.	.35	- .40
powdered, bbls., bxs.	lb.	.40	- .43
Verona, bls.	lb.	.23	- .28
powdered, bbls., bxs.	lb.	.28	- .33
Orthoaminobiphenyl, dms., c.l., works	lb.	.32½-	—
l.c.l., same basis	lb.	.33	- —
tanks, same basis	lb.	.37	- —
Orthoanisidin, bbls.	lb.	.88	- —
Orthochloroanilin, dms., c.l.	lb.	.70	- —
l.c.l.	lb.	.72	- —
Orthochlorobenzaldehyde, dms., works	lb.	1.30	- —
Orthochloroparanitroanilin, dms., dlvd	lb.	.88	- —
Orthochlorophenol, dms., c.l., frt. equald	lb.	.34½-	—
l.c.l., same basis	lb.	.35½-	—
Orthocresol, pure, 30° C., non-ret., dms., c.l., frt. equald	lb.	.173	- —
l.c.l., same basis	lb.	.176	- —
ret. dms., c.l., same basis	lb.	.17	- —
l.c.l., same basis	lb.	.17⅛-	—
tanks, same basis	lb.	.16	- —

Orthocresol, 29°C., ret. dms., c.l., same basis	lb.	.16	- —
l.c.l., same basis	lb.	.16⅛-	—
tanks, same basis	lb.	.15	- —
25-29°C., non-ret. dms., c.l., same basis	lb.	.153	- —
l.c.l., same basis	lb.	.156	- —
tanks, same basis	lb.	.140	- —
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies	lb.	.12¼-	—
l.c.l., same basis	lb.	.13¼-	—
tanks, same basis	lb.	.10¾-	—
Orthonitroanilin, flaked, dms.	lb.	.54	- .57
powd., dms.	lb.	.60	- —
Orthonitrochlorobenzene, dms.	lb.	.20	- .21
Orthonitrobiphenyl, tech., dms., c.l., works	lb.	.14½-	—
l.c.l., works	lb.	.15	- —
tanks, works	lb.	.13	- —
Orthonitroparachlorophenol, cns	lb.	.75	- —
Orthonitrophenol, bbls, works, frt. equald	lb.	.94	- —
Orthonitrotoluene dms., c.l., frt. alld.	lb.	.10	- —
l.c.l., frt. alld	lb.	.11	- —
tanks, frt. alld.	lb.	.09	- —
Orthophenetidin dms., works	lb	1.00	- —
Orthopnenylphenol, fib dms., works.	lb.	.20	- .44
Ortho-tertiary-amylphenol, dms., c.l., works	lb.	.43¾-	—
l.c.l., works	lb.	.46¾-	—
tanks, works	lb.	.41⅛-	—
Orthotolidin (see Tolidin Base).			
Orthotoluidin, dms., c.l., works	lb	.23	- —
l.c.l., same basis	lb.	.24	- —
tanks, same basis	lb.	.22	- —
Osage orange, crystals, No. 1, bbls., l.c.l	lb.	.49	- —
extract, liquid, No. 1, bbls., l.c.l	lb.	.19	- —

Ouabain, USP, bots	gram.	3.00	- 4.00
Ox bile, extract, powdered, USP 5-lb. lots or more	lb.	6.00	- —
not extract, powdered, 5-lb. lots or more	lb.	4.33	- —
Oxyquinolin sulphate, cns., 100-lb. lots, works	lb.	4.75	- 5.00
smaller lots, works	lb.	4.98	- 5.17

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Pancreas substance, assay 1:75 bots., 5-lb. lots or more	lb.	5.75	- —
Pancreatin, USP bots.	lb.	2.50	- 3.00
Papain, powd., African	lb.	5.00	- 6.00
Ceylon	lb.	4.00	- 4.75
Papaverine, natural or synthetic hydrochloride, USP, cns., 25 oz. to 100 oz., lots	oz.	5.00	- —
smaller lots	oz.	5.55	- 5.20
Sulphate, cns.	oz.	7.10	- 7.35
Paprika, Roumanian, bgs.	lb.	.32	- .34
Spanish, bgs.	lb.	.42	- .44
Yugoslavian, bgs.	lb.	.38	- —
Para-anisidin, dms., works	lb.	.97	- —
Para-acetylaminobenzaldehyde thiosemicarbazone, dms., frt. adjusted	lb.	17.50	-21.00
Para-aminophenol dms., frt. alld	lb	.97	- .98
Parachloroanilin, dms., c.l., works, frt. equald	lb.	.75	- —
Parachlorobenzaldehyde, dms., works	lb.	1.33	- 1.36
Parachloro-orthonitroanilin, dms., frt. alld	lb.	.73	- .83
Parachlorophenol, dms., c.l., frt. equald	lb.	.34½-	—
l.c.l., same basis	lb.	.35½-	—

Paracresol, 98%, dms., c.l., dlvd	lb.	.49	- —
l.c.l., dlvd.	lb.	.51	- —
Methylether, cns.	lb.	1.90	- 2.50
Paracymene, dms., 50-gal. lots or more, works	gal.	2.50	- —
smaller lots	gal.	3.00	- —
Paradibromobenzene, bgs. 500-lb. lots.	lb.	.53	- —
Paradichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies	lb.	.16½-	—
l.c.l., same basis	lb.	.19	- —
Paraffin, crude scale, white, 1:1°-123°F, ASTM, solid, c.l., ref'y.	lb.	.0660-	—
fully refined, 122°-124°F, ASTM, slabs loose, c.l., ref'y.	lb.	.0845-	—
125°-127°F, ASTM, slabs loose, c.l., ref'y.	lb.	.0845-	—
130°-132°F., ASTM, slabs loose, c.l., ref'y.	lb.	.0955-	—
132°-134°F, ASTM, slabs, loose, c.l., ref'y.	lb.	.0853-	—
135°-137°F., ASTM, slabs loose, c.l., ref'y.	lb.	.0855-	—

Prices for paraffin in bags and ctns., c.l. 7/10c. per lb. higher; 1,000 to 2,999 lbs. 2.7c per lb. higher and under 1,000 lbs., 3.7c per lb. higher.

AMP temperatures are an arbitrary 3° F. higher than ASTM.

Paraformaldehyde, 91%, powd., bgs., c.l., frt. alld	lb.	.15½-	—
l.c.l., frt. alld	lb.	.17	—
flake, bgs., c.l., frt. alld	lb.	.12	—
l.c.l. frt alld	lb.	.13½	—
USP X, fib dms., c.l	lb.	.198	—
10,000-lb lots	lb.	.198	—
1,000-lb. lots	lb.	.198	—
smaller lots	lb	.208	—

Exchange Brand is the 4-to-1 favorite over all other lemon oils *combined!*

Year after year, Exchange Brand *quality* proves itself in sales. That's because Exchange Lemon Oil comes only from California lemons grown and skillfully processed by Sunkist Growers.

When a little lemon oil goes so far, why risk buying anything but the best?

Sunkist Growers

PRODUCTS DEPARTMENT • ONTARIO, CALIFORNIA

Produced by
Exchange Lemon Products Co. • Corona, California

Distributed in the U. S. exclusively by
FRITZSCHE BROTHERS, INC.
76 Ninth Ave., New York 11, N. Y.
DODGE & OLCOTT, INC.
180 Varick St., New York 14, N. Y.

Exchange
OIL OF LEMON U.S.P.

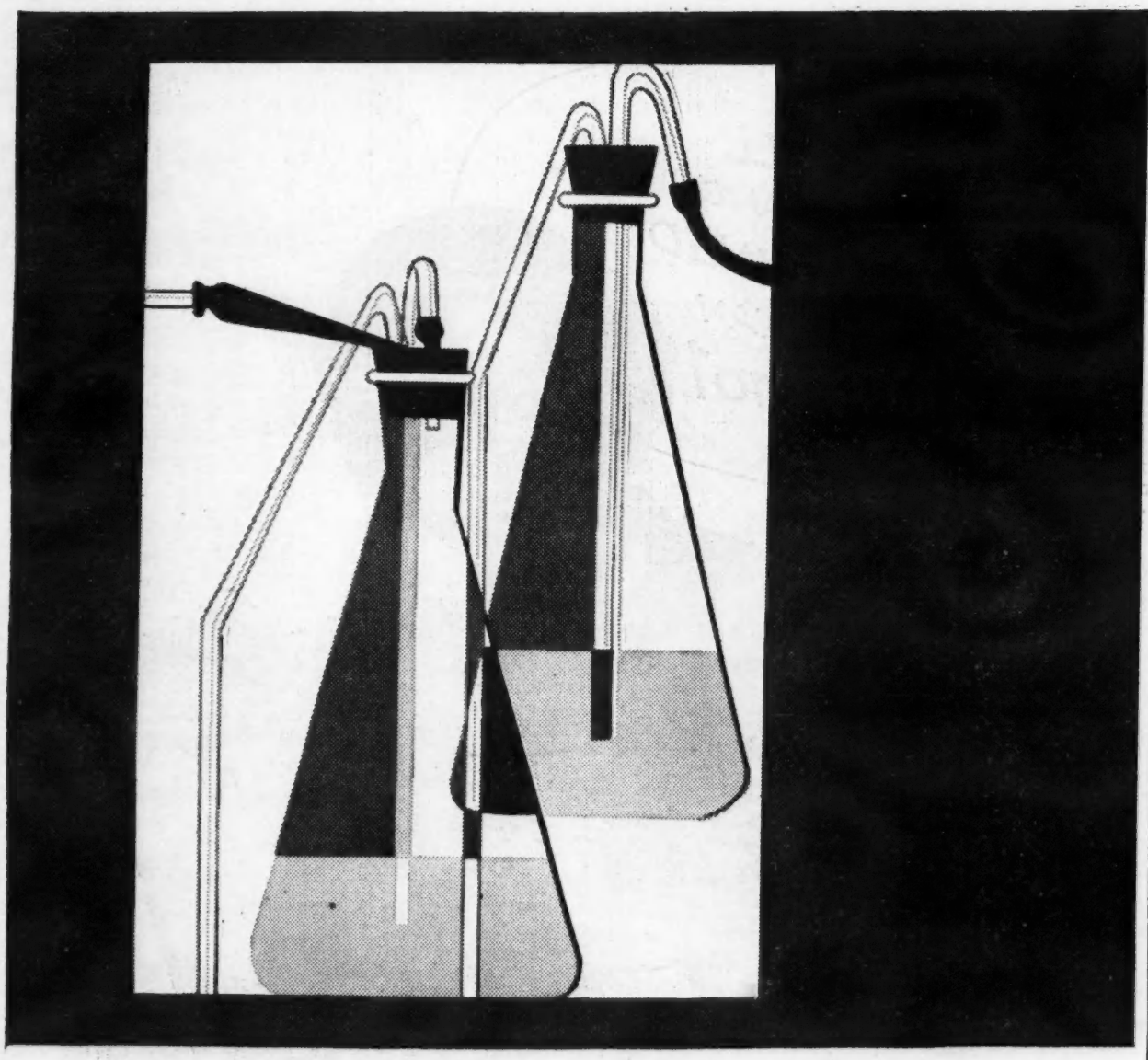
Paraldehyde—Phenylcarbethoxy Pyrazolone

Paraldehyde, tech., 96%, 55-gal. dms., c.l., works lb. .1383- .1650
l.c.l., works lb. .1485- .1750
tanks, works lb. .1200- .1500
Paranitroaniline, dms., c.l., works, frt. alld lb. .50½- —
l.c.l., works, frt. alld lb. .53½- —
Paranitrochlorobenzene, kgs., works, lb. .26 - .27
Paranitrophenol, kgs., works, frt. equald lb. .50 - —
Paranitrotoluene, kgs., fib. dms., works lb. .33 - .36
Paraphenetidin, dms., works lb 1.00 - —
Paraphenylenediamine, redistilled, dms., works lb 2.00 - —
tech. redd. dms. same basis lb 1.10 - 1.35
Paraphenylphenol, bgs., c.l., works, lb. .37½- —
l.c.l., same basis lb. .42 - —
Para-tertiary amylphenol, ctns., c.l., works lb. .26½- —
l.c.l., works lb. .27½- —
tanks, works lb. .25½- —
Para-tertiary butylphenol, bgs., c.l., works lb. .27½- —
l.c.l., same basis lb. .28½- —
Parathion, spray powder, 15% dealers, tins, works lb. .45 - —
tech., dms., works lb. 1.62 - 1.64
Paratoluenesulphonamide, flake, bbls., frt. alld. lb. .64 - .66
powd., bbls., works lb. .70 - —
solid, bbls., frt. allo lb. .61 - —
Paratoluidin flake, bbls., frt. alld. lb. .64 - —
solid, bbls. frt allo lb. .60 - .61
Paris green, dealer, distributor, dms., c.l., works, frt. alld. on 66 lbs or over lb. .36 - .40
l.c.l., same basis lb. .37 - .53

Passion flower herb, bls lb. .21 - .23
Peanut meal, 45%, old proc., sacked, mills ton.75.00 - —
solvent, same basis ton.72.00 - —
Pectin, citrous, NF, powd., bbls lb. 2.05 - 2.06
tech., powd. bbls lb. 1.30 - —
imported, Danish, ex whse lb. 1.28 - —
Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units .00¼- .00
Procaine, bulk, 1,000,000 units .00¼- .00
Sodium, sterile, bulk, 1,000,000 units .00½- .00
Pentachlorophenol, dms., c.l., works, frt. equald lb. .21 - —
l.c.l., same basis lb. .24 - .29
truckload, 20,000 lbs. min. same basis lb. .21¼- —
Pentaerythritol, tech., bgs., c.l., works lb. .34 - —
l.c.l., works lb. .35 - .36
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, industrial, tanks, Tex. refy gal. .14¼- —
Pepper, black, Malabar, spot, bgs lb. .92 - —
red, Gondar, spot, bgs lb. .26 - .28
Japanese, hontaka, bgs lb. .37 - —
birdseyes, bgs., new crop lb. .55 - .56
Mombasa, bgs., ship't lb. .55 Nom.
Nigerian, bgs. lb. .32 - —
Turkish, bgs. lb. .25 - —
Zanzibar, bgs. lb. .55 Nom.
white, bgs. lb. 1.02 - —
Peppermint leaves, USP, dom., bls., dms. lb. .70 - .75
imported, bls lb. 1.25 Nom.
Pepsin, NF, 1:3,000, bulk lb. 3.75 - 3.90

Perchloroethylene, dms., c.l., or truckloads, frt. alld. lb. .11¼- —
dlvd., E lb. .11½- —
l.c.l., dlvd., ex whse lb. .13½- —
dlvd. E lb. .13¾- —
Peru balsam, dms lb. 1.35 - 1.75
Petrolatum, amber, dms., c.l., refy. lb. .06 - .05¾
l.c.l., dlvd lb. .06¾- .07
tanks, refy lb. .05¾- .04¼
cream, dms., c.l., refy lb. .06½- .07½
l.c.l., dlvd lb. .08½- .08¾
tanks, refy lb. .04¾- .05⅝
extra, amber, dms., c.l., refy lb. .05¼- .05⅞
l.c.l., dlvd lb. .07 - .07¼
tanks, refy lb. .03¼- .04⅜
USP, white, lily, dms., c.l., refy lb. .06⅝- .07½
l.c.l., dlvd lb. .06⅞- .09½
tanks, refy lb. .04⅞- .06
snow, dms., c.l., refy lb. .07¼- .07¾
l.c.l., dlvd lb. .09⅜- .09⅝
tanks, refy lb. .05⅜- .05⅞
soft, dms., c.l., refy lb. .06¾- .07¾
l.c.l., dlvd lb. .08½- .08¾
tanks, refy lb. .05 - .05⅞
yellow, soft, dms., c.l., refy lb. .05¼- .05⅞
l.c.l., dlvd lb. .06⅞- .07½
tanks, refy lb. .03½- .05⅛
Petroleum, crude, bulk, at wells, California bbl. 1.42 - 3.53
Illinois bbl. 2.69 - 2.02
Kentucky bbl. 2.62 - 3.02
Louisiana-Arkansas bbl. 3.23 - 3.23
Montana bbl. 1.53 - 2.90
Oklahoma-Kansas bbl. 2.48 - 2.90
Penna. grade, Buckeye, O. bbl. 3.54 - —
middle Penna. district bbl. 4.05 - —
Texas, East bbl. 2.90 - —
Gulf Coast lb. 2.63 - 3.23
North, North-Central bbl. 2.48 - 2.90
Panhandle bbl. 2.48 - 2.90
West bbl. 2.35 - 2.90
Wyoming bbl. 1.53 - 2.90

Petroleum, fuel oil, bunker C, No. 6, East Coast, Baltimore, Md. bbl. 2.25 - —
Boston, Mass. bbl. 2.29 - —
Charleston, S. C. bbl. 2.20 - —
Jacksonville, Fla bbl. 2.18 - —
New York Harbor bbl. 2.25 - —
Norfolk, Va. bbl. 2.23 - —
Philadelphia, Pa bbl. 2.15 - —
Portland, Me. bbl. 2.29 - —
Providence, R. I bbl. 2.26 - —
Savannah, Ga. bbl. 2.20 - —
West Coast bbl. 1.90 - 2.10
diesel, tanks, refy., California gal. .1025- .133
New York gal. .104 - —
Penna., western gal. .1075- .11
furnace, tanks, refinery, Arkansas, No. 2 gal. .085 - —
No. 3 gal. .0625- —
N. Y. Harbor, No. 2 gal. .10 - —
group 3, No. 1 gal. .0875- .09375
No. 2 gal. .08 - .09125
No. 3 gal. .07875- .0825
range gal. .0875-.099375
Pennsylvania western, No. 1. gal. .1075- .114
No. 2 gal. .104 - .111
No. 3 lb. .105 - .1103
Lacquer diluent, 150°-240° F., b.r., tanks, West Coast, ex tax, Los Angeles gal. .168 - .183
East coast, N. J., N. Y. gal. .19 - —
Group 3, benzol-type gal. .14125- —
toluol-type gal. .13125- —
Mineral spirits, regular tanks, California, ex tax, San Francisco gal. .163 - —
East coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .11875- —
tankwagon, Boston gal. .19 - —
Buffalo gal. .195 - —
Chicago gal. .279 - —
Cleveland gal. .22 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Providence gal. .195 - —
specially ref., tanks, refy., Watson, Calif. gal. .244 - —
Borger, Tex. gal. .24 - —
Houston, Tex. gal. .24 - —
Wood River, Ill. gal. .2625- —
tank transport, dlvd. N. J. gal. .32 - —
dlvd. N. Y. gal. .33¼- —
tankwagon, N. J., dlvd. gal. .36 - —
N. Y., dlvd. gal. .37 - —
Naphtha, cleaners, tanks, East Coast, N. J. and N. Y. gal. .17 - —
Group 3 gal. .12375- —
tankwagon, Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
High solvency (see petroleum solvent, partial aromatic).
V.M.&P., 225°-300°F., b.r., tanks, West Coast, Los Angeles gal. .168 - —
Portland, Ore. gal. .174 - —
San Francisco gal. .173 - —
Seattle, Wash. gal. .174 - —
East coast, N. J., N. Y. gal. .18 - —
Group 3 gal. .12875- —
tankwagon, Boston gal. .205 - —
Chicago gal. .289 - —
Cleveland gal. .23 - —
Newark gal. .195 - —
New York gal. .195 - —
Philadelphia gal. .20 - —
Pittsburgh gal. .19 - —
Solvent, partial aromatic, tanks, East Coast, N. J., N. Y., 205°-292°F. b.r., 37°-38°C. m.a.p. gal. .26 - .27½
17°-29°C. m.a.p gal. .29 - .32½
266°-383°F. b.r., 35°C. m.a.p. gal. .29 - —
27°-28°C. m.a.p gal. .29 - .31
19°C. m.a.p gal. .34 - —
310°-392°F. b.r., 30°-38°C. m.a.p. gal. .27 - .32½
17°-19°C., m.a.p gal. .35½- .39
350°-425°F. b.r., 32°-3s°C. m.a.p. gal. .30½- .32½
25°C. m.a.p gal. .39½- —
18°-21°C. m.a.p gal. .35 - .43½
rubber, tanks, Cal., ex tax, San Francisco gal. .173 - —
East Coast, N. J., N. Y. gal. .18 - —
Group 3 gal. .12875- —
Stoddard, tanks, East Coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .12375- —
Pennsylvania, western gal. .15 - —
tankwagon, Boston gal. .19 - —
Chicago gal. .289 - —
Cleveland gal. .22 - —
Los Angeles, ex tax gal. .173 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Sulphonate, oil soluble, 60-62% sulphonic content, non-ret. dms., c.l., works lb. .16 - .18¼
l.c.l., works lb. .17 - .18½
tanks, works lb. .14 - .16½
50-55% sulphonic content, non-ret. dms., works lb. .15½- —
l.c.l., works lb. .16½- —
tanks, works lb. .12½- —
Phenobarbital, USP, dms., 100-lb. lots lb. 4.00 - —
Phenobarbital-sodium, USP, dms., 100-lb. lots lb. 4.00 - —
Phenol, 90-92% (cresol 8-10%), non-ret. dms., c.l., frt. alld. E. of Rockies lb. .15¾- —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .14 - —
82-84% (cresol 16-18%), non-ret. drums, c.l., same basis lb. .15¼- —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13½- —
39° or above, tar distilled, non-ret. dms., c.l., same basis lb. .17¼- .17¾
l.c.l., same basis lb. .18 - .18½
tanks, same basis lb. .15½- —
USP, synthetic, dms., c.l., frt. alld. lb. .17¾- —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .16 - —
Phenolphthalein, USP, or yellow, bbls., dms., 2,000-lb. lots. lb. 1.10 - —
smaller lots lb. 1.12 - 1.17
Phenothiazin, NF, fib, dms., c.l., frt. adjusted lb. .53 - —
over 2,100 lbs., same basis lb. .55 - —
less than 2,100 lbs., same basis. lb. .57 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Salicylate (see Salol.)
Phenylacetaldehyde solution, 50%, bots lb. 2.40 - 2.70
100%, bots lb. 4.00 - 4.65
Phenylacetamide, 125-lb. dms., works lb. 1.10 - —
smaller dms., works lb. 1.15 - 1.10
Phenylalanine, dextro-laevo, dms., works lb.27.00 -37.50
Phenylcarbethoxy pyrazolone, 250-lb. fib. dms., dlvd. E lb. 3.60 - —
smaller dms., dlvd. E lb. 4.00 - —



In industrial finishing specify **PENOLA SOLVENTS**

for assured high quality

Penola Solvents offer all of these important advantages

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- Controlled Evaporation
- Balanced Solvency
- Purity
- Special Handling
- Immediate availability

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Phenyldiethanolamine, dms., c.l., dlvd E... lb. .40 - —
t.c.l., dlvd. E... lb. .41 - —
Phenylethanolamine, dms., c.l., works lb. .69½ - —
t.c.l. same basis ... lb. .70 - —
Phenylethyl acetate, bots... lb. 1.35 - 1.95
b-Phenylethylamine, dms., works, 1,000-lb. lots lb. 1.10 - —
smaller lots, works... lb. 1.15 - 1.40
Phenylethylphenyl acetate, bots lb. 3.95 - 4.40
Phenylhydrazin base, CP, bots... lb. 3.00 - 3.07
Hydrochloride commercial kgs., works lb. 1.75 - —
purified, bots., works lb. 5.17 - —
Phenylmethylpyrazolone (see Methylphenylpyrazolone).
Phloroglucinol comi. fib dms., works lb 6.40 - —
C.P., bots. fib. dms ... lb. 17.00 - 17.25
tech. fib dms works lb 10.45 - —
Phosgene 150-lb cyls. works lb 27½ - —
Phosphate defluorinated (see under Rock, Curacao, Atlantic ports ton. 45.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 70-68%, b.p.l., c.l., same basis long-ton. 4.68½ - —
72-70%, b.p.l. c.l. same basis long-ton. 5.68½ - —
75%-74%, b.p.l. c.l., same basis long-ton. 6.68½ - —
77%-78%, b.p.l. c.l. same basis long-ton. 7.68½ - —
finely ground, 65%, b.p.l., basis 30% P_2O_5 minimum, bulk, c.l., mines, short-ton 5.60 - —
68%, b.p.l. basis 31% P_2O_5 minimum, mines, short ton. 5.80 - —
70%, b.p.l. basis 32% P_2O_5 minimum, mines, short-ton. 6.15½ - —
plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble 50c per long ton higher
Phosphorus, amorphous, red, cs. lb. .46 - .47
dms lb. .44 - .45
yellow, cns., works... lb. .48 - .50
dms., c.l., works... lb. .40 - —
l.c.l., works ... lb. .43 - —
Oxychloride, dms., c.l., works lb. .14 - —
l.c.l., dms., works ... lb. .17 - —
tankcars, works ... lb. .12½ - —
Pentasulphide, solid, dms., c.l., works lb. .11½ - —
l.c.l., dms., works lb. .13 - .13½
Pentoxide, dms., c.l., works lb. .13½ - —
l.c.l. works lb. .16½ - —
Sesquisulphide, tins, cs., works lb. .29 - —
export, dms lb. .31 - .36
Trichloride, dms., c.l., works lb. .14 - —
l.c.l., works ... lb. .17 - —
tankcars, works lb. .12½ - —
Phthalic anhydride, bgs, c.l., works, frt. equald lb. .20 - —
l.c.l., same basis... lb. .21 - —
tanks, same basis... lb. .19½ - —
Phthalimide 97%-98% dms works, frt. alld lb. .65 - .70
Phthalylsulphacetamide fiber dms., lb. 5.00 - 5.50
a-Picoline, ret., dms., c.l., works, frt. equald lb. .43½ - —
l.c.l., works, frt. equald ... lb. .44 - —
b,g-Picoline, 5°, dms., c.l., works, lb. .31 - .32½
l.c.l., works ... lb. .32 - .33
g-Picoline, 98%, dms., c.l., works, lb. 2.65 - —
Pilocarpine hydrochloride, NF, bots oz 5.25 - —
Nitrate, USP, bots. vials... oz. 5.10 - 5.20
Pimento, Jamaican, bgs... lb. .50 - —
Mexican, bgs. ... lb. .38 - .39
a-Pinene, tanks, South, works... gal. .30 - —
Pinetar, retort dms. incl. c.l., works gal. .44 - —
l.c.l., works ... gal. .46 - .50½
tanks, bulk, works... gal. .35 - —
Pinkroot, bls ... lb. 3.00 - 3.25
Piperazine hexahydrate, French Codex dextro, bots kilo. 8.00 - 8.50
Piperidine, 98%, dms., frt. equald, lb. 2.90 - 3.00
Piperonyl butoxide, dms., dlvd. E. lb. 4.50 - 5.30
Cyclonene, dms., dlvd. E... lb. 4.20 - 4.50
Pitch, burgundy, domestic, dms., c.l., t.c.l. works 100 lbs. 9.80 - 10.25
Coaltar, 140° 150° F., m.p., dms., c.l., works ton. 41.20 - 42.09
Cottonseed dms. works lb. .02¼ - .03
Hardwood, paper bgs., c.l., works, lb. .02 - —
Linseed dms ... lb. .06 Nom.
Marine, dms ... lb. .04¼ - .05
Petroleum (see Asphalt, petroleum).
Pine, dms., incl., l.c.l., works, South 100 lbs. 8.25 - —
Soybean dms. works ... lb. .05 Nom.
Tall, dms., works... lb. .03¾ - .04½
Plaster of Paris (see Gypsum).
Platinum metal works ... oz. 93.00 - —
Pleurisy root, bls ... lb. .45 - .50
Podophyllum resin, NF, dms... lb. 8.75 - —
Pokeroot, bls ... lb. .19 - .22
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .43 - —
10,000-20,000-lb. lots, works. lb. .45 - —
smaller lots, works ... lb. .48 - .50
Tristearate, dms., 20,000-lb. lots, works lb. .43 - —
10,000 - 20,000 - lb. lots, works. smaller lots, works ... lb. .48 - .50
Polystyrene, gran., gen'l use, colors, special, bgs., over 23,000 lbs., frt. alld lb. .34½ - .35½
10,000-23,000-lb. lots, same basis lb. .37 - —
2,000-9,999-lb. lots, same basis lb. .38½ - .43
standard, bgs... lb. .35½ - .36
crystals, gen'l use, bgs., c.l., lb. .33½ - —
heat resistant, bgs., c.l... lb. .34 - .36
Polystyrene in non-returnable fib., dms., ½c per lb. higher.
Poppyseed, Argentine, bgs... lb. .17¾ - —
Dutch, bgs. ... lb. .18½ - —
Polish, bgs. ... lb. .17¼ - .18
Turkish, bgs... lb. .14½ - —
Potash, caustic, regular, flake, 88-92%, dms., c.l., works. 100 lbs. 9.15 - —
t.c.l., works ... 100 lbs. 10.20 - —
liquid, 45% basis, dms., c.l., works 100 lbs. 4.25 - —
t.c.l., same basis 100 lbs. 5.05 - —
tanks, same basis 100 lbs. 3.70 - —
solid 88-92% dms., c.l., works 100 lbs. 8.70 - —
t.c.l., same basis, works. 100 lbs. 9.75 - —
Potassium abietate, dms., works lb. .25 - .28
Acetate, NF, dms ... lb. .31 - .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd. dms ... lb. .24 - —
Bichromate, bgs., c.l., works... lb. .15 - —
t.c.l. same basis ... lb. .15½ - .16¾
Potassium bichromate in drums ¾c. higher.
Bitartrate (see Cream of tartar).
Bromate, bbls., 1,000 lbs. or more, lb. .50 - .52
25-200-lb lots ... lb. .55 - .57
Bromide, USP gran., bbls., kgs. lb. .34 - —
Carbonate, tech., calcined, bbls., c.l., works ... 100 lbs. 9.00 - —
t.c.l., same basis 100 lbs. 10.05 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 - —
t.c.l., works ... 100 lbs. 8.65 - —
USP gran., bbls., dms ... lb. .16½ - .18
powd., bbls., dms... lb. .21 - .23
Potassium chlorate, cryst., dms., c.l., works. lb. .10¼ - —
t.c.l., works ... lb. .11½ - .12
powd., dms., c.l., works ... lb. .10¾ - —
l.c.l., works ... lb. .12 - 12½
export, dms., New York lb. .12¾ - .13½
NF, gran., dms lb. .33 - 33
Chloride, USP, cryst., dms... lb. .21 - .23
gran, dms ... lb. .15 - .17
powd. dms ... lb. .24 - .26
Chromate, tech., bgs ... lb. .50 - .50½
Citrate, USP, gran., dms ... lb. .41 - —
powder, dms lb. .40½ - .41½
Cyanide, dms., 500-lb. lots or more, works lb. .55 - —
smaller lots works ... lb. .57 - —
Fluoborate, fib. dms., c.l., works. lb. .30 - —
t.c.l., works ... lb. .31 - —
Fluoride, dms., works ... lb. .32 - —
Gluconate dms ... lb. .75 - .79
Glycerophosphate, 75% solution cbys lb. 2.15 - 2.25
Guaiacsulphonate, NF, dms lb. 2.10 - 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb. dms. 1 to 100-dm. lots lb. .28½ - .33
Hypophosphite, NF, fib. dms., ton lots or less lb. 1.00 - 1.03
Iodide, dms. ... lb. 2.15 - —
Manure salt, 22% K_2O, bulk, mines unit-ton. .21 - —
Metabisulphate, gran., dms... lb. .20 - .21
powd., dms. ... lb. .25 - —
Muriate, dom. 50-60% K_2O, bulk, Carlsbad, N M. unit-ton. .43 - —
Trona, Cal. ... unit-ton. .53 - —
50-51% K_2O paper bgs., Carlsbad N M ton. 25.75 - —
Nitrate (see Saltpeter).
Oxalate, neutral tech., fine gran., bbls., dms lb. .30 - .32

Phenyldiethanolamine—Propyl Parahydroxybenzoate

Phenyldiethanolamine pentaborate, gran., bgs., c.l., works ton. 180.00 - —
bbls., ton lots, ex whse ton. 261.00 - —
smaller lots, ex whse ton. 266.00 - —
Powdered Potassium pentoborate, $10.25 per ton higher
Perchlorate, dms., c.l., works lb. .15 - —
t.c.l., works ... lb. .16½ - —
Permanganate, tech., dms., works lb. .22½ - .23½
USP dms. works lb. .24¾ - 30¼
Persulphate, dms., 5 tons, works. lb. .21½ - —
one ton, works ... lb. .23½ - —
Phosphate, tetrabasic, bbls., works lb. .16½ - .18½
Prussiate, red, kgs ... lb. .60 - .63
yellow, dms ton lots ... lb. .22½ - —
smaller lots ... lb. .23 - —
kegs ... lb. .28 - —
Silicate, glass, bgs., c.l., works. 100 lbs. 17.00 - —
t.c.l. ... 100 lbs. 17.80 - —
solution, clarified, 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.80 - —
t.c.l., 5 dms., or more, works 100 lbs 6.55 - —
tanks, works 100 lbs. 5.45 - —
tech., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.35 - —
t.c.l., 5 dms. or more, works 100 lbs. 6.50 - —
tanks, works 100 lbs. 5.00 - —
40.5° Be., 1:2.0, dms., c.l., works 100 lbs. 6.45 - —
t.c.l., 5 dms. or more, works 100 lbs. 7.20 - 7.60
tanks, works 100 lbs. 6.10 - —
Silicofluoride, bbls., works ... lb. .83 - .10
Stannate, dms., frt. alld. E... lb. .647 - .713
Potassium sulphate, agricultural, 49-51% K_2O, bulk, works. ton. 37.25 - —
NF VII cryst. dms ... lb. .21 - .33
gran. dms. ... lb. .16½ - —
powder dms ... lb. .16½ - .17
Sulphocyanide, NF, cryst. (see Potassium thiocyanate)
Thiocyanate, NF, cryst, dms lb. .85 - .94
tech., works ... lb. .77 - .79
Titanate, ctns., c.l., works... lb. .14 - —
5-ton lots, works ... lb. .14½ - —
1-ton lot or less, works... lb. .14¾ - —
Potassium-magnesium sulphate bulk, works basis 40% K_2SO_4, 18% MgO ton. 16.90 - —
Potassium-sodium tartrate (see Rochelle salt)
Potassium-titanium fluoride, fib. dms., works lb. .39 - .40
Oxalate, bbls. dms ... lb. .85 - .95
Potassium-zirconium fluoride, fib. dms. c.l. works lb. .50 - —
t.c.l., works ... lb. .52½ - .55
Progesterone, USP, bots., 100-gr. lots gm. .79 - —
Acetate, bots. ... gm. .70 - —
Procaine hydrochloride USP, dms., ret. alld lb. 3.10 - 3.40
Propane, commercial grade tanks, group 3 gal. .04 - —
Propyl acetate normal, dms. c.l., dlvd lb. .12¾ - —
t.c.l., dlvd. ... lb. .13¾ - —
tanks, dlvd ... lb. .1075 - —
Gallate, dms., 100 to 2,000-lb. lots, works lb. 3.90 - 4.40
Parahydroxybenzoate, USP dms. lb. 3.30 - 3.40

carbonate of potash

purity and uniformity

Control of production all the way through mining and refining of the raw material to final manufacturing of the finished product gives you a plus value when you depend on *International* for your supplies of carbonate of potash. You can be sure of the grade, density, particle size, purity and uniformity you must have for the production of fine glass, chemicals, pharmaceuticals, textiles and other products. And in addition, because of *International's* complete control of production, you can be sure of continuing supplies to your specifications, in tonnages you require and with deliveries to your schedules.

LIQUID—47 to 48%. Available in 675 lb. drums and tank cars.

HYDRATED—83 to 85%. Available in 100 lb. bags and 400 lb. barrels.

CALCINED—99 to 100%. Available in 100 lb. bags and 325 lb. barrels, and bulk in minimum carloads.

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CAUSTIC POTASH—*all standard grades*
CARBONATE OF POTASH —*all standard grades*
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HYDROCHLORIC ACID

INTERNATIONAL MINERALS & CHEMICAL CORPORATION

Address all inquiries to Industrial Sales Dept., Potash Division
General Offices: 20 North Wacker Drive, Chicago 6
61 Broadway, New York 6
Midland, Texas

Propylene Dichloride—Sago Flour

Propylene dichloride, dms., c.l., dlvd E lb. .0845- .095
l.c.l., same basis lb. .0950- .1050
tanks, same basis lb. .07 - .08
Oxide, dms., c.l., dlvd E lb. .19½- .20½
l.c.l., dlvd E lb. .20½- .21½
tanks, dlvd E lb. .17½- .18½
Propyleneglycol, industrial, dms., c.l., dlvd E lb. .16¼- —
l.c.l., same basis lb. .17¼- —
tanks, same basis lb. .14½- —
USP, dms., c.l., dlvd E lb. .17¼- —
l.c.l., same basis lb. .18¼- —
tanks, same basis lb. .15½- —
Methylether, dms., c.l., dlvd E lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½- —
Propylthiouracil, bots., 50-kilo lots or more kilo 55.00 - —
smaller lots kilo 55 10 -55 30
Psyllium seed, black, bgs lb. .80 - —
blonde, bgs. lb. .20 - .22
husks, bgs. lb. .48 - —
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03¾- .04¼
smaller lots lb. .03⅞- .04½
imported, Italian, silk-screen, coarse, bgs., ton lots lb. .06½- —
fine, bgs., ton lots lb. .04 - —
sun dried, coarse, bgs, ton lots lb 02½- .04
fine, bgs., ton lots lb. .02½ .04
Pumice in bbls is ½c per lb higher.
Pumpkin seed, bgs lb. .25 - .26
Pyrethrin, synthetic (see Allethrin).
Pyrethrum flowers, fine grd. 0.9% pyrethrins bbls works, lb. .50 - —
powder, 1.3% pyrethrins, bbls., works lb. .71½- —
liquid (20 to 1) basis 2 grams pyrethrins per 100cc, odorless base, 50 dms., works, gal. 8.35 - —
one to 4 dms., works gal. 8.55 - —
oleoresin, dewaxed, 20%, for aerosol bombs, dms., works, lb. 9.90 -10.15
Pyridin, denaturing, dms., c.l., works and frt equald gal 2.77 - —
l.c.l., same basis gal 2.80 - —
refd., 2°, non-ret dms., c.l., same basis lb. .95 - —
Pyridoxine hydrochloride, bots., 100-gm. lots gm. .55 - —
Pyrites, Canadian, works long-ton 3.00 - 5.00
Pyrocatechol (see Catechol)
Pyrogallol, NF lb 3.25 3.43
Pyrophyllite, insecticide grade 200 mesh bgs c.l. mines ton 13.00 -13.50
No 3, 200 mesh, bulk, c.l. mines ton 11.00 - —
rubber grade 140 mesh bgs, c.l., mines ton 11.50 -12.00
standard, 200 mesh, bulk, c.l., mines ton 12.50 - —
230 mesh, bulk, c.l., mines ton 13.50 - —
325 mesh, bulk, c.l., mines ton 16.75 - —
Standard and No 3 pyrophyllite in paper bgs. $3 to $3.50 per ton extra.
Pyroxlin scrap, amber, dms., works lb. .20 - —
black, dms., works lb. .12 - —
mixed, mottled, dms., works lb. .11 - —
Pyroxylin, scrap, white, china, ivory, dms, works lb. .16 - —
dense, opaque, dms., works lb. .12 - .18
translucent pastels, cs., works lb. .14 - —
transparent colorless, dms, works, lb. .25 - —
colors, dms., works lb. .14 - —
shavings, amber, cs., works lb. .11 - —
mixed colors, dms., works, lb. .11 - —

Q

Quassia chips lb. .17 - —
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l., lb. .16½- .16¾
liquid, 35% tannin, bbls., works,, tanks, same basis lb. .08¼- —
solid, clarif., 64% tannin, bgs., c.l., exdock, duty extra lb. .12½- —
ordinary, 63% tannin, bgs., c.l. same basis lb. .11 31 64 —
Quercitron extract, crystals, No 1, bbls., l.c.l. fb. .40 - —
liquid, No. 1, bbls., l.c.l. lb. .19 - —
Quicksilver, flasks (76 lbs. net) flask 193.00 -195.00
Quinceseed, bgs lb. 2.00 Nom.
Quinidine, NF, V cryst., cns., 100-oz. lots oz. 1.15 - —
powd., precip., cns., 100-oz. lots oz. 1.17 - —
Sulphate, USP, cns., 100-oz. lots oz. .87 - —
Quinine, NF, cns., 100-oz. lots oz. .54 - —
Bisulphate, USP, cns., 100-oz. lots oz. .37½- —
Dihydrochloride, USP, cns oz. .54 - —
Quinine ethylecarbonate, NF, cns., 100-oz. lots oz. .63½- —
Hydrobromide, NF, cns., 50-oz. cns. oz. .47½- —
Hydrochloride, USP, cns., 100-oz. lots oz. .47½- —
Phosphate, NF, cns., 100-oz. lots oz. .61 - —
Salicylate, NF, cns., 100-oz. lots oz. .55 - —
Sulphate, USP, cns., 100-oz. lots oz. .42 - —
Quinine and Urea hydrochloride, NF, cns oz. .56 - —
Quinolin, dms., c.l., frt. equald lb. .50¾- —
l.c.l., same basis lb. .51¼- —
tanks, same basis lb. .50 - —

R

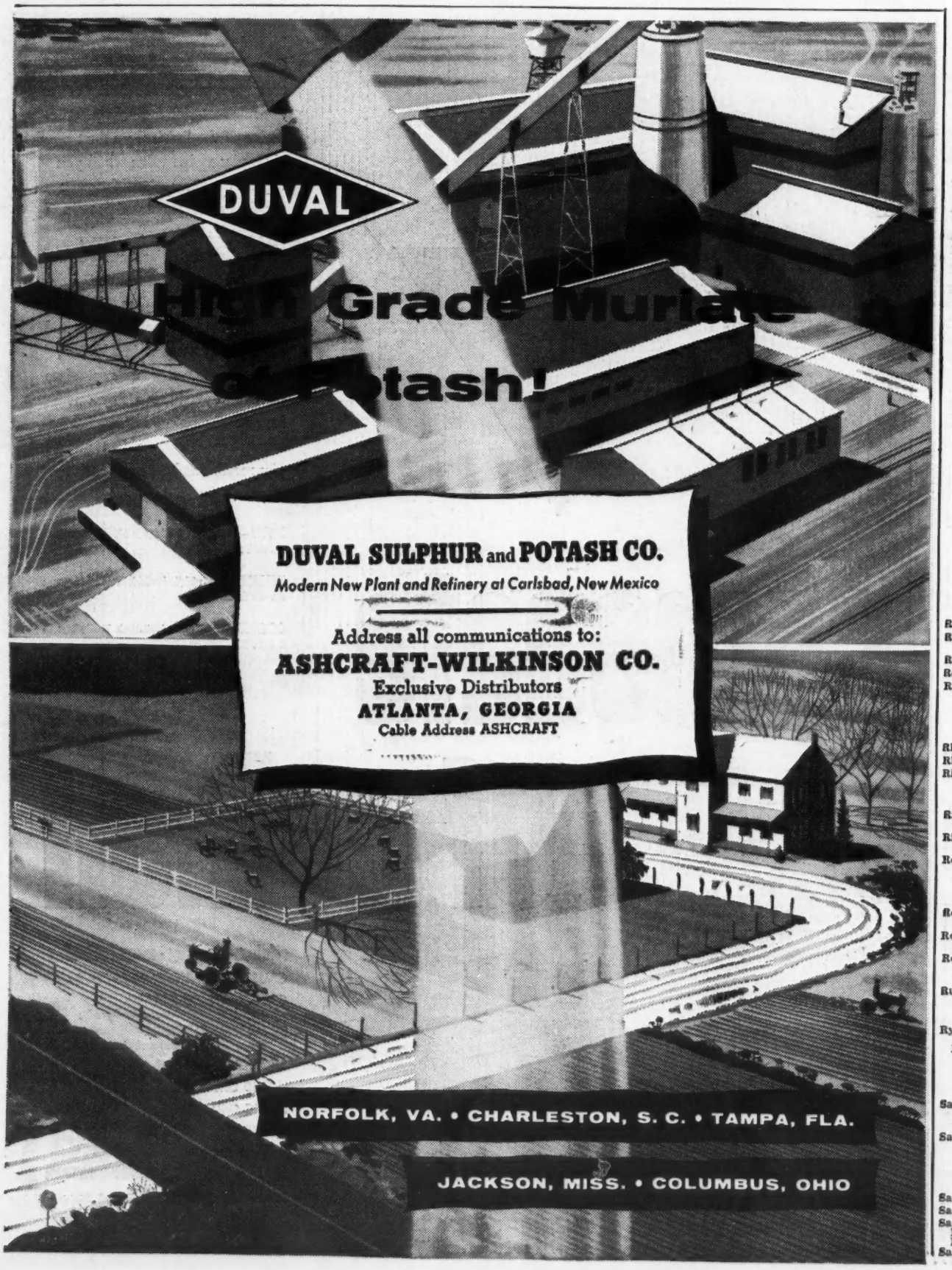
R salt, paste, 100% basis, dms., frt alld lb. .83 - —
powd., basis 100%, frt. alld lb. .88 - .93
Red, BON acid maroons, pure, bbls. lb 1.75 - —
resinated, bbls lb 1.50 - —
arylid, deep shades, bbls lb 3.60 - —
light shades, bbls lb 2.75 - —
maroon, bbls lb 3.60 5.90
Cadmium, CP, dark shade, bbls., frt. alld, E. of Rockies lb. 4.30 - —
light shade same basis lb 4.00 - —
medium shade, bbls. same basis lb 4.25 - —
medium light shade, bbls., same basis lb 4.05 - —
orange shade, bbls., same basis lb. 3.95 - —
lithopone, deep shade, bbls., same basis lb. 1.93 - —
light shade, bbls. same basis lb 1.70 - —
maroon shade, bbls. same basis lb. 2.05 - —
medium shade, bbls. same basis lb 1.85 - —
medium-light shade, bbls., orange-red shade, bbls, same basis lb. 1.64 - —

Red cadmium lithopone all shades, in smaller pkgs., 5c. per lb higher; all prices are 1c per lb higher ex whse Los Angeles and San Francisco.

Carmine No 40 (see Carmine).
Dyes (see Dyes, coaltar).
same basis lb. 1.77 - —
Eosin toner, bbls., works lb. 1.60 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N Y lb. .12¾- —
Iron oxide, natural, 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., East St. Louis lb. .06 - —
synthetic, 98% ferric oxide, bgs., c.l., works lb. .12¾- —
l.c.l., works lb. .13 - —
Lake C toner, alizarin, bbls., works lb. 1.10 - 1.30
Lithol, toner, bbls., works lb. .79 - —
rubine, toner, pure, bbls., works lb. 1.50 - —
resinated, bbls., works lb 1.40 - —
Virginia-type, bbls., works lb 1.40 - —
Maroon toner, MNPT, kgs., works. lb. 3.60 - —
10,000-lb. lots, works lb. 4.22 - —
smaller lots, works lb. 4.24 - —
Metallic, bbls., c.l., works lb. .02½- —
l.c.l. works lb. .02¾- —
Oxide (see Red iron oxide).
Persian gulf, bgs., c.l., works lb. .06¾- —
l.c.l., works lb. .07 - —
Para toner, bbls lb. .95 - —
Chlorinated, kgs lb 1.10 - 1.15
Phloxin toner (see Red eosin toner).
Rhodamine, molybdated, PMA, kegs lb 5.35 - —
tungstated, PTMA, works, kegs. lb. 6.15 - —
Spanish, oxide, bbls., c.l., ex dock lb. .05¾- —
l.c.l., ex dock lb. .06 - —
ex whse., New York lb. .06½- —
Toluidin toner, deep shades, kgs., works lb. 1.50 - —
light shades, kgs., works lb. 1.50 - —
Turkey, bbls., works lb. .60 - —
Tuscan, bbls., frt. equald lb. .24½- .25
Venetian, 15%, bgs., works lb. .0350- .037
20%, bgs., works lb. .0475- —
25%, bgs., works lb. .0525- —
30%, bgs., works lb. .0550- —
35%, bgs., works lb. .0575- —
40%, bgs., works lb. .0625- —
Vermilion, Amer., bbls lb .32 - —
Quicksilver, ctns lb. 3.80 - —
Watchung-type, bbls lb 1.95 - —
Red KB base (see Chloro (4)-2-amino-toluene).
Red precipitate, NF, powd., fib dms lb. 4.37 - 4.41
Red saunders, NF, powd., bbls lb. .35 - .40
Rennin, NF, powder lb. 6.25 - —
Resorcinol, tech, grade, dms., c.l., works lb. .77½- —
l.c.l., works lb. .78½- —
USP, cryst., dms., works lb. 2.75 - —
powd., dms., works lb. 2.95 - —
Monoacetate, NF, dms lb 3.25 - 3.45
Rhatany root, bgs lb. .15 - .16
Rhodinol, 5-lb. cans lb. 25.00 -56.00
Rhubarb root, China, whole, cs lb. .75 - .85
powd., bbls. lb. .90 - .95
India, whole, bgs lb. .35 - .40
powdered, bbls. lb. .43 - .45
Riboflavin, USP, bots., dlvd kilo. 100.00 - —
readily soluble, bots., dlvd kilo. 100.00 - —
Rice bran, concentrate, dms., Cedartown, Ga lb. .79 - —
Rochelle salt, USP, gran., powd., dms., c.l. lb. .32½- —
5,000-lb. lots, dms., c.l. lb. .32½- —
smaller lots lb. .33½- .38½
Rosin, gum and wood (see Naval Stores, Protective Coatings market).
Rotenone, CP, bbls., works lb. 20.00 - —
tech., bbls., works lb. 16.50 - —
Rottenstone, bgs., 5 ton lots, ex-whse lb. .03 - —
ton lots, same basis lb. .04 - —
Rutin, NF, fib, dms., 25-kilo lots, kilo. 25.00 - —
10 to 25-kilo lots, fib, dms. kilo. 25.00 -30.00
1 to 10-kilo lots, fib, dms kilo 30.00 - —
Ryania, 100%, powd., bgs., works, c.l. lb. .22 - —
l.c.l., same basis lb. .24 - —

S

Sabadilla seed, powd., bbls lb. .49 - .49½
activated, ground with lime, bbls lb. .35 - .36
Saccharin, USP, gran., soluble, dms., 1000-lb. lots lb. 1.60 - —
smaller lots lb. 1.70 - 1.80
powd., soluble, insoluble, dms., 1000-lb. lots lb 1.65 - —
smaller lots lb 1.75 - 1.95
Saffron, Spanish, USP, tins lb. 25.00 - —
Safrol, dms lb. .85 - 1.10
Sage, Cretan, bgs. lb. .11 - —
Dalmatian, bgs. lb. .40 - .42
Italian, bgs. lb. .15½- .16
Sago flour, raw, bgs lb. .07¼- .07½
refined, bgs lb. .08¼- .09¼



Sal soda (see Soda sal)
Powdered salol, 25c. higher.
Salol NF gran, bbls., kgs. ..... lb. 1.10 - —
Salt, rock, paper bgs., c.l. .... 100 lbs. .98 - —
Table, vacuum, common, fine, paper bgs., c.l 100 lbs. 1.12 - —
Saltcake, dom., bulk, works, basis 100% Na_2SO_4 ton 19.00 - —
Saltpeter, cryst, bbls, 10-ton lots, 100 lbs 14.40 —
smaller lots .. 100 lbs 14.65 14.90
gran., bbls., 20-ton lots, 100 lbs. 9.75 - —
smaller lots .. 100 lbs 11.10 11.50
powd., bbls, 20-ton lots .. 100 lbs 10.75 —
smaller lots ..... 100 lbs 12.00 12.50
NF, gran., dms ..... lb. .09¾ .11¾

Saltpeter in bags, 50c. per 100 lbs. less; in kegs $1 more

Sandalwood chips, East Indies, bgs., lb .65 .66
powd., dms ..... lb. .75 .76
Sanguinarine nitrate, bots oz 4.75 5.50
Santonin, NF, dom, cryst., powd., dms., cns lb 76.50 -80.00
imported, cryst, powd., cns lb. 76.50 -80.00
Saponin, No. 1, 100-lb. dms..... lb. 2.75 -
Sarsaparilla root, dom bls .. lb .45 .50
imported, Honduras, bls. ...lb. .45 - —
Mexican, bls.....lb. .35 Nom.
Sassafras root bark, ord., bls....lb. .50 - —
select, bls .....lb. .65 - —
Schaeffer's salt, paste dms., frt. alld., basis 100% lb. .85 - .95
powder, bgs., frt. alld ..... lb. .95 - —
Scopolamine hydrobromide, USP, bots oz. 12.25 -12.50
Seidlitz mixture, bbls., 5,000-lb. lots lb. .30½ - —
smaller lots lb .31 .32
Selenium, powd., dms., dlvd.... lb. 5.00 - 6.00
Senega root, bls .....lb. 2.20 2.40
Senna leaves, Alex., whole and half, bls. lb. .19 - —
siftings .....lb. .17 - —
Tinnevelly, No. 1, bls.....lb. .17 - .19
No. 2, bls. .....lb. .13 - .15
No. 3, bls. .....lb. .11 - .13
powdered, bbls., bxs.....lb. .18 - —
pods, bls. .....lb. .14 - —
Serpentaria root, bls .....lb. 4.85 5.00
Sesame seed, Nicaragua hulled, ship't, bgs. .lb. .34 - .35
natural, bgs. .....lb. .23 - .24
Salvadorian, natural.....lb. .21 - .22
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .49 - —
bbls., 1,500-lb. lots.....lb. .50 - —
kgs., 1,500-lb. lots .....lb. .52 - —
refined, bgs., 1,500-lb. lots...lb. .59 - —
bbls., 1,500-lb. lots.....lb. .60 - —
kgs., 1,500-lb. lots.....lb. .62 - —

Bonedry shellac prices for less than 1,500-lb lots 1c per lb higher for all packages

Lemon, No. 1, bgs., 10-bg. lots..lb. .36½ - —
No. 2, bgs., 10-bg. lots .....lb. .34½ - —
Superfine, bgs., 10-bg. lots.....lb. .33½ - —
TN, bgs., 10-bg. lots .....lb. .32 - .32½

Shellac in 1 to 5 bg. lots, 1c. more

Shingle stain oil (see Oil, shingle stain).
Silica, amorph, dry grd., 325 mesh bgs., c.l., works ton 25.00 - —
t.c.l., works ton 30.00 -40.00
hard-quartz, 99½, 325 mesh, bgs., c.l., works ton 20.00 —
t.c.l., works ton 25.00 -30.00
140 mesh, bgs., c.l., works ton 15.00 - —
t.c.l. works ton 20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .16 - —
t.c.l., works lb. .20 - .28½
Silver bullion, ingots, ca lb. .85¼ - —
Cyanide 6b dms., 2,500-oz lots oz. .77⅞ - —
1,000-oz. lots ..... oz. .77⅞ - —
500-oz. lots ..... oz. .77⅞ - —
100-oz. lots ..... oz. .78⅛ - —
Nitrate, CP, crystals, bots., 2,500-oz. lots..oz. .54¾ - —
1,000-oz. lots ..... oz. .55 - —
500-oz. lots ..... oz. .56½ - —
250-oz. lots ..... oz. .57 - —

USP granular silver nitrate 4c. per oz higher

Proteinate, mild, USP, bots., dms., 1,000-lb. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots. oz. 1.00 - —
Slate flour, bgs., c.l., works ton 9.00 -13.00
t.c.l., ex whse .....ton 21.00 -27.35
Soapbark, whole, bls. .....lb. .28 - .30
crushed, bls., bbls. .....lb. .32 - .33
powd., bbls .....lb. .35 - .37
Soda ash dense 58% paper bgs., c.l., works 100 lbs. 1.75 - —
t.c.l., stock points..100 lbs. 2.85 - 4.62
bbls. c.l., works ..100 lbs. 2.30 - —
t.c.l., stock points..100 lbs. 3.35 - 4.12
bulk, c.l., works ..100 lbs. 1.45 - —
light, 58% paper bgs., c.l., works 100 lbs. 1.65 - —
t.c.l. stock points..100 lbs. 2.75 - 4.52
bbls., c.l., works ..100 lbs. 2.20 - —
t.c.l. stock points..100 lbs. 3.25 - 5.02
bulk, c.l., works 100 lbs. 1.35 - —
Soda, caustic, flake, powd., 76%, dms., c.l., works, frt. equald. 100 lbs. 4.10 - —
t.c.l., stock points.100 lbs. 5.30 - —
liquid, 50%, sellers' tanks, works, dry basis..100 lbs. 2.55 - —
rayon-type tanks works, dry basis 100 lbs 2.65 - —
70% sellers' tanks, works, dry basis..100 lbs. 2.65 - —
rayon type tanks, works, dry basis 100 lbs 2.75 - —
solid, 76% dms. c.l. works 100 lbs. 3.70 - —
t.c.l., stock points..100 lbs. 4.90 - —
Sal, bgs. c.l., works .... 100 lbs. 1.40 - —
t.c.l. works .....100 lbs 1.70 - —
Soda-lime, USP, dms ..... lb. .23 - .25
Sodium acetate anhyd., bgs., c.l., works lb. .12 - —
t.c.l., dms lb. .12¾ - —
NF, gran., dms., works.....lb. .12½ - .16½
Alginate, refined, bbls., works lb. .83 - —
NF, white, powd., dms., ton lots, works lb. .87 - 1.30
Antimoniate bbls., c.l., dlvd. E lb. .26½ - —
t.c.l., dlvd. E .....lb. .28 - —
Arsenate, dms., c.l., works....lb. .12½ - —
t.c.l dms works .....lb. .13¾ - .14¼
Arsenite, dms., c.l., works....lb. .13½ - —
t.c.l., dms works .....lb. .14¼ - .15¼
solution, dms. works gal. .70 - 1.10
Ascorbate, dms., 25-50 kilo lots kilo. 21.00 - —
10-kilo lots..... kilo. 21.35 - —
5-kilo lots ..... kilo. 21.75 - —
1-kilo lots ..... kilo. 22.00 - —
500-gram lots, bots ..... kilo. 22.50 - —
Benzoate, tech., bbls., dms., 100-lb. lots or more lb. .39 - —
USP, t bls., dms. 100-lb. lots, or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works..100 lbs. 2.70 - —
t.c.l., works ..... 100 lbs. 3.70 - —
powd., bgs., c.l., works 100 lbs 2.30 - —
t.c.l., works ..... 100 lbs 3.30 - —
Bichromate, bgs., c.l., works. lb. .11½ - —
t.c.l., same basis.....lb. .12 - .13¼
Sodium bifluoride, bbls., c.l., works, frt. equald..lb. .17½ - —
t.c.l., same basis .....lb. .1790- —
Bisulphate, bulk, c.l., works .. 100 lbs. 2.00 - —
dms., c.l., works.....100 lbs. 2.65 - 3.85
t.c.l., works. .....100 lbs. 3.05 - 3.65
Bisulphite anhyd., bgs., c.l., works 100 lbs. 4.50 - —
t.c.l., works .....100 lbs. 4.90 - —
solut. 35° bbls., c.l., works 100 lbs 1.40 - —
t.c.l., works.....100 lbs. 1.80 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works, lb. .34 - .35
Cacodylate, NF, dms, frs. .... lb 8.52 - —
Carbonate, anhydrous (see Soda ash), crystalline decahydrated (see soda sal), monohydrated bgs., c.l., works 100 lbs. 2.90 - —
t.c.l., works ..... 100lbs 3.30 - —
Carboxymethyl cellulose (see CMC).
Chlorate, cryst., dms., c.l., works, lb. .08¾ - —
t.c.l., works .....lb. .10¼ .11
Chloride, tech (see Salt), USP, dms ..... lb. .05 .12
Chlorite, tech, dms., works lb. .58 .73
Chloroacetate, tech., dms., c.l., works lb. .24 - —
t.c.l. works lb. .25 .26
Chromate, dms., c.l., works...lb. .13¼ - —
t.c.l., same basis ..... lb. .13¾ .15
Citrate, anhyd., dms.....lb. .60 - .65
USP VIII gran dms. .....lb. .26 .30½
USP XIV gran., dms. .....lb. .29½ .34

Sodium citrate USP powd prices ½c higher

Cyanate, dms., 1,000-lb. lots, works lb. .85 1.10
smaller lots, works .. lb. 1.00 1.25
Sodium cyanide flake, 98-98%, dms., c.l. or 20,000-lb. lots lb. .178 - —
over 1,000-lb lots .... lb. .188 - —
100-lb. to 1,000-lb. lots lb. .198 - —

Granular sodium cyanide 1c. higher.

Diacetate, 33-35% acidity, 250-lb. dms., works. lb. .14 - —
t.c.l. ..... lb. .14¾ - —
anhydrous dms. c.l. works lb. .17 - —
t.c.l lb. .17¾ - —
Fluoride, white, 97%, bbls., c.l., works lb. .1250- —
t.c.l., works lb. .1290- —
Fluoracetate, monobasic, 8-oz. tins, 50 to a case, works lb. 12.00 - —
2 to 25 tins to case works lb. 12.00 -16.50
1 oz. tins, 16 to 64 to case, works lb. 16.50 -21.00
Formate, bgs., c.l., dlvd. E .... 100 lbs. 7.60 - —
t.c.l., works ..... 100 lbs 8.65 - —
Gentisate 100-lb fib dms lb 8.50 - —
Gluconate, technical, bgs. ... lb. .35 - —
refined, dms ... lb. .80 - .83
Glutamate, monobasic, dms., c.l. lb. 1.70 - —
Glycerophosphate, NF, cryst., bbls lb. 2.10 - 2.25
powder, bbls .....lb. 2.15 - 2.30
solution, 75%, cbys.....lb. 1.45 - 1.60
Hydride, dms., works ..... lb. 2.00 - 3.00
Hydrosulphide (see Sodium sulphydrate).
Hydrosulphite, dms., c.l., frt. alld lb. .23 - —
t.c.l., frt. alld. .....lb. .23½ - —
Hydroxide, tech, see Soda caustic).
NF, pellets, 100-lb dms, 1 to 100-dm. lots lb. .18½ - .23
Hypophosphite, NF, dms., ton-lots or less lb. .95 - .98
Hyposulphite, photo grade, bgs., c.l., works 100 lbs. 4.50 - 4.75
t.c.l. same basis 100 lbs. 5.00 - 5.05
pea crystals, bgs .....100 lbs. 4.50 - —
gran., bgs., c.l. works.100 lbs. 4.75 - 5.00
tech., bgs., c.l., works 100 lbs. 4.50 - —
t.c.l., works ..... 100 lbs. 5.20 - 5.90

Sodium hyposulphite crystals in bbls. 50c. higher.

NF (see Sodium thiosulphate).
Iodide, USP bots, dms lb 2.80 2.92
Lactate, edible, 50%, dms., cbys., works lb. .21½ - —
60% dms cbys works lb. 20½ —
tech, 50% dms, cbys, works, lb 16½ - —
Laurylsulphate, dms., c.l., dlvd lb. .24 - —
t.c.l. dlvd lb. .25 - —
tanks, dlvd lb. .23 - —
Metabisulphite (see sodium bisulphite).
Metaborate, octahydrate, gran., bgs., c.l., works ton 78.50 - —
t.c.l., ex whse .....ton 124.50 -129.50

Sodium metaborate octahydrate in bbls. $24.50 per ton higher.

tetrahydrate c.l. bbls. works, ton 199.50 —
Metallic, bricks, bbls., works lb. .17 - .19
tanks, works ..... lb. .16 - —
Metanilate, bbls., frt. alld ..... lb. .62 - —
Metasilicate, anhyd. bgs., c.l., works..100 lbs. 4.85 - —
t.c.l., works.....100 lbs. 5.20 - 7.10
dms., c.l., ... 100 lbs. 5.25 - —
t.c.l., ...100 lbs. 5.60 - 6.00

SOLVAY

SODIUM NITRITE

U. S. P.

a product of

- *Exceptional Purity!*
- *Outstanding Quality!*
- *Widespread application in many Industries!*

DO YOU HAVE A CORROSION PROBLEM?

SOLVAY Sodium Nitrite is an excellent anti-corrosion agent that will not injure the skin of a normal person. It will however protect a wide variety of metals including iron and steel.

Among the current applications utilizing this property of SOLVAY Sodium Nitrite are: prevention of corrosion in air conditioning units and circulating water systems; as a corrosion inhibitor in water base paints, water soluble hydraulic fluids, metal cutting and grinding compounds; as a rust preventive in household scouring pads and radiator anti-freeze compounds.

Quantities of 1/10 of 1% or less have given *complete protection against corrosion!*

Physical and Chemical Properties:

Molecular Weight: 69.01.

Solubility: In water: 20% at −12° C., 39% at −26° F. (eutectic). 50% at 42° C., 60% at 90° C. SOLVAY Sodium Nitrite is slightly soluble in alcohols, very soluble in anhydrous ammonia. It is endothermic—it has a negative heat of solution.

Melting Point: 271° C., decomposes at 320° C.

Appearance: Crystalline, slight yellow cast, almost 100% will pass through a No. 20 screen.

Reactions: Can be either a reducing or oxidizing agent. Provides NO_2 for azo reaction.

Quality: U.S.P. grade. Better than 99% $NaNO_2$, very low in chlorides and metallic impurities.

Toxicity: SOLVAY U.S.P. Sodium Nitrite is not a poison as defined in the manual of the M.C.A. It is toxic to humans when taken internally in quantity. It is non-irritating to normal human skin.

A Few Uses of SOLVAY Sodium Nitrite

METAL INDUSTRY
- for corrosion prevention
- for oxidizing compounds
- for heat treating salts
- for specialized metal cleaning compounds
- for enameling
- for detinning

MEAT PACKING
- as a color fixative for meats

TEXTILE INDUSTRY
- in azo dyeing

ORGANIC CHEMICAL SYNTHESIS
- as a reagent in organic synthesis
- provides nitrite ion for diazonium reaction

Performing Important Functions in American Industry!

SOLVAY Sodium Nitrite meets the highest standards of *purity* and *quality*! Because of its physical and chemical characteristics, this versatile product is now being used to do a variety of essential jobs in a great many industries.

What Can SOLVAY Sodium Nitrite Do For You?

If you have a process in which SOLVAY Sodium Nitrite is being used or can be used, may we offer SOLVAY's Technical Service to assist you in its application to your situation. You can send us in complete confidence a description of your product or the process involved.

New Test Kit Now Available!

SOLVAY has prepared an inexpensive kit for testing low strength sodium nitrite solutions used in corrosion control. Write for complete information and price.

SOLVAY PROCESS DIVISION
Allied Chemical & Dye Corporation
61 Broadway, New York 6, N. Y.

BRANCH SALES OFFICES:
Boston • Charlotte • Chicago • Cincinnati • Cleveland • Detroit • Houston
New Orleans • New York • Philadelphia • Pittsburgh • St. Louis • Syracuse

SOLVAY
Sodium Nitrite • Soda Ash • Snowflake® Crystals • Potassium Carbonate
Sodium Bicarbonate • Ammonium Bicarbonate • Cleaning Compounds
Caustic Potash • Calcium Chloride • Ammonium Chloride • Chlorine • Caustic Soda • Monochlorobenzene • Para-dichlorobenzene • Ortho-dichlorobenzene

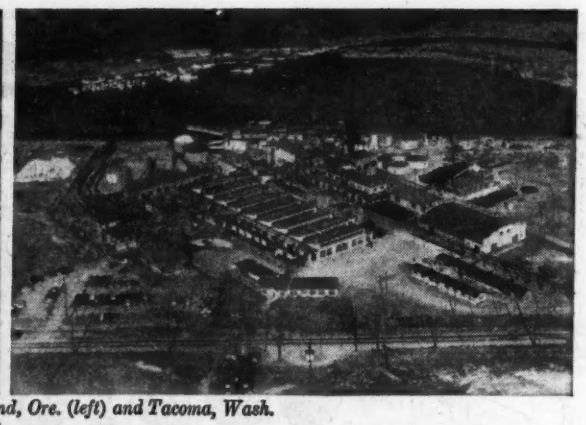
Sodium Molybdate—Stearine, Oleo

Sodium molybdate, crys., bbls., works lb. .75 - .85
powd., anhy., dms., works lb. .85 - .92
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate, bbls. lb. .70 - —
Nitrate, crude, dom., bgs., c.l., works ton.47.00 - —
bulk, c.l., works ton.43.50 - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac., whse ton.53.00 - —
bulk, c.l., same basis ton.49.50 - —
Nitrite, USP bbls., c.l., works, frt. equald lb. .0775- —
l.c.l., same basis lb. .0925- .18
Orthosilicate, conc., dms., c.l., works 100 lbs. 6.00 - —
l.c.l., works 100 lbs. 6.35 - 6.75
hydrated flake bbls. c.l. works 100 lbs 4.75 - —
l.c.l., works 100 lbs 5.50 - —
Oxalate, 88%, bgs., works 100 lbs.10.85 - —
Para-aminobenzoate, dms., 1,000-lb. lots or more lb. 2.40 - —
smaller lots lb. 2.45 - 2.50
Para-aminosalicylate, dms., 1,000-lb. lots, frt. adjusted lb. 3.75 - —
smaller lots same basis lb. 3.80 - 4.25
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald. lb. .25¼- —
l.c.l. same basis lb. 26½ .28¼
Pentachlorophenate, pellets, bgs., c.l., same basis lb. .25 - —
l.c.l., same basis lb. .26 - .28
Pentachlorophenate, powdered, bgs., c.l., same basis lb. .24 - —
lb. .24 - —
l.c.l., same basis lb. .25 - .27
Pentachlorophenate 20,000 lbs. min truckloads ¼c. per lb. over carlot prices.

Sodium pentahydrate, bgs., c.l., works 100 lbs. 4.00 - —
l.c.l., bgs., works 100 lbs. 4.35 - 4.55
dms., c.l., works 100 lbs. 4.80 - —
l.c.l., works 100 lbs. 5.15 - 5.65
Perborate, USP, tech., bbls., c.l., works lb. .193 - —
l.c.l., works lb. .198 - —
Peroxide, dms., c.l., dlvd. E. of Miss lb. .1860- —
l.c.l., same basis lb. .1910- .2010
Phenolsulphonate, USP (see gran., dms lb. .44 - .45
powd., dms lb. .47 - .48
Phosphate, dibasic, anhyd., bgs., c.l., frt., equald 100 lbs. 7.45 - —
l.c.l., works 100 lbs. 7.85 - —
USP, dried powd., bgs., dms., works lb. .19 - .20½
duohydrate, bgs., c.l., frt. equald 100 lbs. 7 05 - —
l.c.l., frt. equald. 100 lbs. 7 25 - —
monobasic, anhyd., bgs., c.l., frt. equald 100 lbs. 8.45 - —
l.c.l., frt. equald 100 lbs 8.90 - —
tribasic, cryst., bgs., c.l., frt. equald 100 lbs. 4.20 - —
l.c.l., frt. equald 100 lbs. 4.60 - —
Sodium phosphates in dms. 60c. higher than bgs.
Prussiate, yellow, bgs., 10-ton lots lb. .13½- —
smaller lots lb. .14 - —
Pyrophosphate, acid, bgs., c.l., works, frt. equald 100 lbs.10.75 - —
ferric, dms., 1,500-lb. lots, works. lb. .31 - —
smaller lots, works lb. .32 - —

Sodium pyrophosphate, tetrabasic, anhy., bgs., c.l., works, frt. equald 100 lbs. 7.90 - —
l.c.l., frt. equald 100 lbs. 8.10 - —
Salicylate, USP, dms. lb. .68 - —
Sesquicarbonate, bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., divd., zone 1 100 lbs 3.85 - 4.10
zone 2 100 lbs. 4.10 - 4.35
zone 3 100 lbs. 4.40 - 4.65
zone 4 100 lbs. 5.10 - 5.35
Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss. south of 31° Tex E. of 100°; S. of 31° Fla.; also Me. N. H., and Vt., in which there are special county zones; Davenport, Ia. and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport) Minn., Mo (except St Louis) Neb., E. of 98° N. C., S. C., Tenn and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala. La and Miss No of 31°; (3) Ark. W of 98° Kan. Neb W of 98°; N. D., Okla., S. D., Tex. W of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah Wyo. and El Paso, Tex.
Sesquisilicate, hydrated, dms., c.l., works 100 lbs. 4.90 - —
l.c.l., works 100 lbs. 5.25 - 5.65
bgs., c.l., works 100 lbs. 4.50 - —
l.c.l., bgs., works 100 lbs. 4.85 - 6.75
Silicate liquid, 40° 1:3.2, turbid, dms., c.l., works 100 lbs. 1.35 - —
l.c.l., works 100 lbs. 1.70 - 2.30
tanks, works 100 lbs. 1.00 - —
47°, turbid, 1:2.9, dms., c.l., works 100 lbs. 1.95 - —
l.c.l., dms., works. 100 lbs. 2.55 - 2.80
tanks, works 100 lbs. 1.60 - —

Sodium silicate, liquid, 52°, turbid, 1:2.4, dms., c.l., works 100 lbs. 2.30 - —
l.c.l., works 100 lbs. 2.65 - 3.05
tanks, works 100 lbs. 1.95 - —
solid, 1:3.2, bgs., works ton.57.50 - —
Silicofluoride, bgs., c.l., works lb. .07 - —
l.c.l., works lb. .07 - .08
Sodium silicofluoride in dms., 4/10c. higher.
Stannate, dms., works, frt. alld. E. lb. .476 - .532
Stearate, tech., dms., works lb. .40 - —
USP, dms. works lb. .70 - .75
Sulphanilate, bbls., works lb. .22 - —
Sulphate, NF. VII, dried, powd., dms lb. .02½- —
tech., anhyd., bgs., c.l., works, frt. alld. to $10. 100 lbs. 2.35 - —
l.c.l., works, same basis 100 lbs 2.50 3.00
rayon grade, bgs., c.l., works, ton.29.00 - —
l.c.l., works ton.35.00 - —
USP, cryst., fib dms lb. .17½ .18
gran., fib. dms lb. .17½ .18
Sulphide, flake, dms., c.l., works, E., frt. equald lb. .05¼- —
l.c.l., same basis lb. .05¾- —
fused, bbls., c.l., works, E., frt. equald lb. .04¾- —
l.c.l., same basis lb. .05¼- —
Sulphite, anhyd., bgs., c.l., works, 100 lbs. 3.00 - —
l.c.l. same basis 100 lbs. 3.50 - —
powder, bbls., c.l., works 100 lbs. 7.25 - —
l.c.l., works 100 lbs. 7.50 - —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphydrate, flake, 70-72%, dms., works, c.l lb. .06¾- —
l.c.l., works lb. .07 - —
liquid, 40-44%, tanks, works, basis 100% ton.110.00 - —
Tetraborate (see Borax.)
Tetrasulphide, liquid, 40%, dms., c.l., works lb. .03½- —
l.c.l., works lb. .04 - —
Thiocyanate, CP, dms lb. .55 - .65
tech., dms., works lb. .377 - —
Thiosulphate, NF cryst., bbls lb. .12½ - —
tech (see Sodium hyposulphite).
Titanate ctns, c.l. works lb. .10½ - —
5-ton lots, works lb. .10¾- —
1 ton or less, works lb. .11 - —
Trichloroacetate, 98% 100-lb. dms., c.l., frt. alld., E lb. .37½- —
l.c.l., frt. adjusted, E lb. .39½- —
50-lb. dms., c.l., frt. alld., E. lb. .38 - —
l.c.l., frt. adjusted, E lb. .40 - —
90%, 10-lb. cns., c.l., frt. alld., E. lb. .44 - —
l.c.l., frt. adjusted, E lb. .46 - —
Prices West of the Rockies are 1¾c per pound higher
Tripolyphosphate, bgs., c.l., works, frt. equald 100 lbs. 8.05 - 8.25
l.c.l., same basis 100 lbs. 8.30 - 8.45
Trisilicate, powd., 1:32.2, bgs., c.l., works 100 lbs. 8.65 - —
l.c.l., works 100 lbs. 9.40 -12.80
dms., c.l., works 100 lbs. 9.05 - —
l.c.l., works 100 lbs. 9.80 -1025
Tungstate, tech., kgs., divd. E. lb. 2.40 - —
Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 - —
Sodium-carboxymethylcellulose. See CMC.
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulphoxylate, dms., c.l., divd lb. .23½- —
l.c.l., same basis lb. .24 - —
Sodium sulpha drugs (see Sulpha name).
Sodium zirconyl sulphate, fiber dms., 1,000-lb. lots or more works lb. .28 - —
less than 1,000-lb lots, same basis lb. .30 - —
Solvent naphtha, coaltar, refined, tanks, works gal. .31 - .32
high flash, tanks, works gal. .31 - .32
petroleum (see petroleum solvent, partial aromatic).
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works lb. .32 - —
10,000 to 20,000-lb. lots, works, lb. .34 - —
smaller lots, works lb. .37 - .39
Tristearate, fib. dms., 20-000-lb. lots, works lb. .33 —
10,000 to 20,000-lb. lots, works, lb. .35 - —
smaller lots, works lb. .38 - .40
Sorbitol, cryst., pellets, dms., c.l., works lb. .30 —
1 to 5-ton lots, works lb. .32 - .33
powd., dms., 1 to 5-ton lots, works lb. .38 .39
Solution, commercial, aqueous, dms., c.l., works lb. .24½- —
ton lots works lb. .25 —
smaller lots, works lb. .25¼- —
tanks, works lb. .23¼- —
regular, 70%, aqueous, dms., c.l., works lb. .16 - —
ton lots, works lb. .16¾- —
smaller lots, works lb. .17 - —
tanks, works lb. .15 - —
Soybean meal, 44%, bulk, Decatur. ton.77.00 - —
protein, chemically isolated, 40-000 to 60,000-lb. lots, divd. lb. .23 - —
20,000 to 40,000-lb. lots, same basis lb. .23¼- —
100 to 20,000-lb. lots, same basis lb. .23½- —
mechanically refined, bgs., 40,000-lb. lots, same basis. lb. .0605- —
20,000-lb. lots, same basis lb. .0620- —
smaller lots, same basis. lb. .0635- —
Sparteine sulphate, cns oz. .85 - .95
Spearmint leaves, bls lb. .75 - —
Imported, bls. lb. 1.25 - —
Spruce extract liq. reg., tanks, works lb. .01¾- —
powd., super, bgs., c.l., works. lb. .05¼- —
l.c.l., works lb. .05½- —
Squill, red, fortified, powd., bbls., boxes lb. 1.60 - —
white, bls. lb. .12 - .15
powd., bbls., bxs lb. .18 - .21
St. John's bread, edible, bls lb. .13 - .15
Stannous chloride (see Tin chloride stannous)
Star root (see Helonias root)
Stargrass root (see Aletris root)
Starch, corn, pearl, paper bgs., c.l., 100 lbs. 7.14 - —
l.c.l. 100 lbs. 7.29 - —
powd., paper bgs., c.l. 100 lbs. 7.26 - —
l.c.l. 100 lbs. 7.32 - —
Prices for corn starch in cotton bags 25c. per 100 lbs. higher.
Potato, dom., Idaho, bgs., c.l., works lb. .06½- —
Maine, bgs., c.l., works lb. .06 Nom.
l.c.l., spot lb. .07¼- .08¼
Rice, l.c.l., bgs lb. .16 - .17
Wheat, bgs. lb. .0755- .0780
Stavesacre seed bgs. lb. .60 - .61
Stearine oleo (see Oleostearine.)



These Pennsalt Plants at Portland, Ore. (left) and Tacoma, Wash.

New Weyerhaeuser Timber Co. mill at Everett, Wash. Photo courtesy PULP & PAPER
. . . supply industry in the Northwest with basic chemicals . . .

Bonneville Dam. Photo courtesy Bonneville Power Administration, Portland, Oregon
. . . made with the help of Hydro-Electric Power . . .

. . . and utilize all types of bulk transportation to "deliver the goods"

Helping to Build the Northwest

How Pennsalt, a basic chemical manufacturer has become an integral part of a great growing area

With two busy plants in the Northwest, at Tacoma and Portland, Pennsalt has long been an active, dedicated contributor to this region's development. Because of their location, these plants save nearby industry time, trouble, and expense in the buying of chemicals.

Many current Pennsalt products have been improved specifically to meet the needs of this area. For example, Pennsalt Sodium Chlorate is now helping to produce better, whiter pulp.

Handling methods, too, have been tailor-made to the Northwest: Pennsalt ships its products in drums, tank cars, tank trucks, barges—by whatever means best serves the customer.

The Company has also developed numerous basic chemicals and chemical specialties required by Northwest industries. For example, Pennsalt insecticides are widely used by apple growers.

Pennsalt's success is in no small way dependent on the region's vast resources. The Company extensively uses hydro-electric power, and the nearby ocean, through solar salt beds, provides an essential raw material.

And yet, with all its accomplishments, the Northwest is young. In coming years it will grow and prosper in a thousand ways. Pennsalt intends to contribute to that future in every way possible.

Pennsalt Chemicals

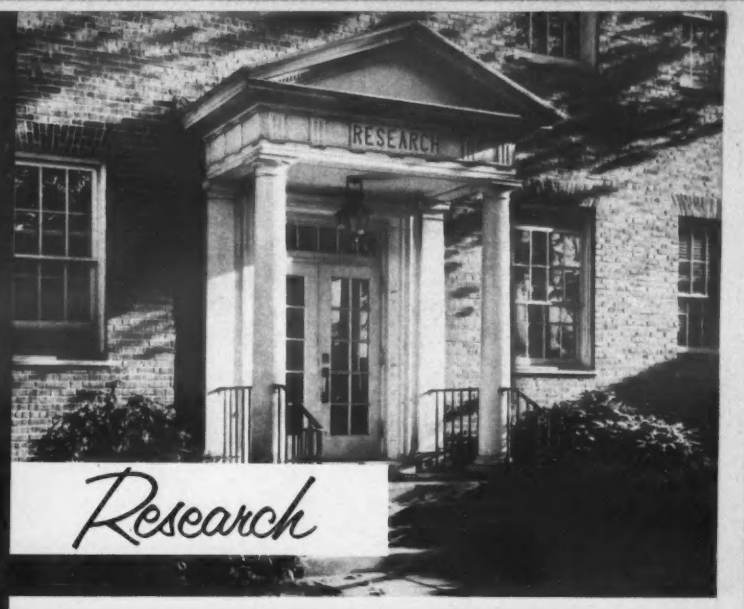
DISTRICT OFFICES AND TELEPHONES

Berkeley 4, Calif.—Ashberry 3-2537 • Portland, Ore.—Atwater 7655
Los Angeles 11, Calif.—Jefferson 6244 • Tacoma 1, Wash.—Market 9101

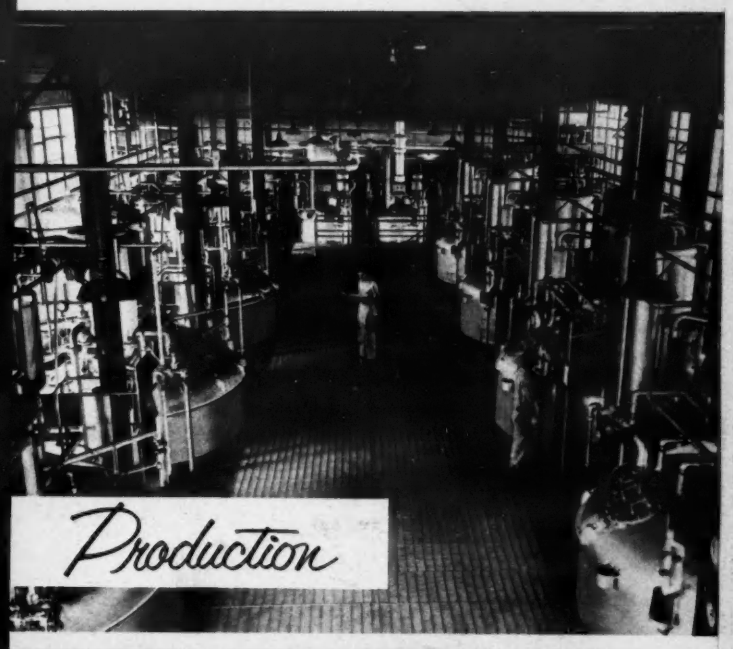
PENNSYLVANIA SALT MANUFACTURING COMPANY OF WASHINGTON
2901 Taylor Way, Tacoma 1, Washington

MERCK

Important reasons for doing business with Merck



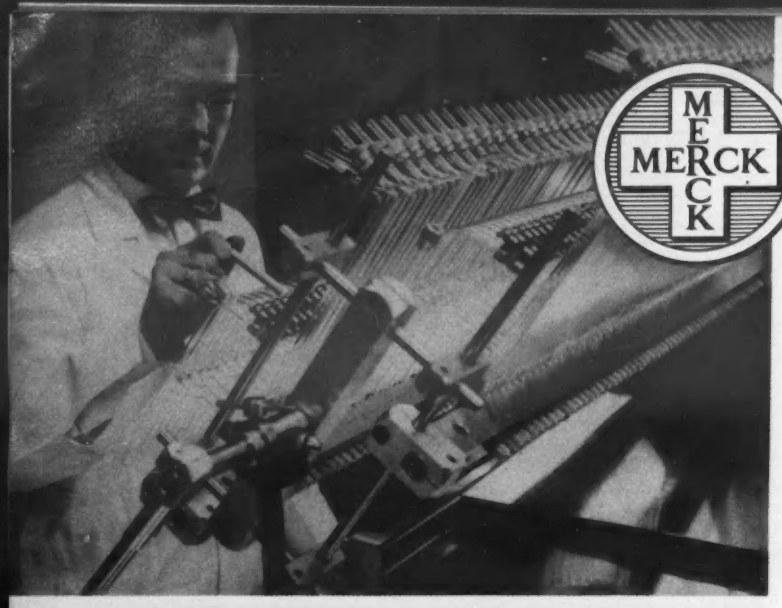
Research



Production

Technical Service

Promotion



Research creates new opportunities for you

During the last decade, prescription volume has grown fivefold—more than 80 per cent of the increase consisting of specialties. The key ingredients of many of these products were unknown until recent years.

Merck Research has been a leading factor in initiating and maintaining this unprecedented progress. Merck Research played an important creative role in the development of antibiotics, sulfonamides, vitamins, and steroids. Formulations based on these ingredients represent the major part of the over-all increased market.

The Merck Research Program continues to develop new medicinals, improve present products, and evolve new processes that aid in reducing the cost of your basic materials. As a result, Merck customers frequently are first to open a new market, to expand their present market, or to build volume through product improvement.

Production and distribution are geared to meet your needs

Uniform high quality and efficient delivery are essentials that a pharmaceutical manufacturer requires from his supplier. The purity, uniformity, and dependability of Merck products are the result of more than 135 years of experience in the manufacture of fine chemicals.

During the last few years, many millions of dollars have been spent to modernize and augment Merck's manufacturing plants. These expanded facilities give Merck the capacity to meet your tonnage requirements.

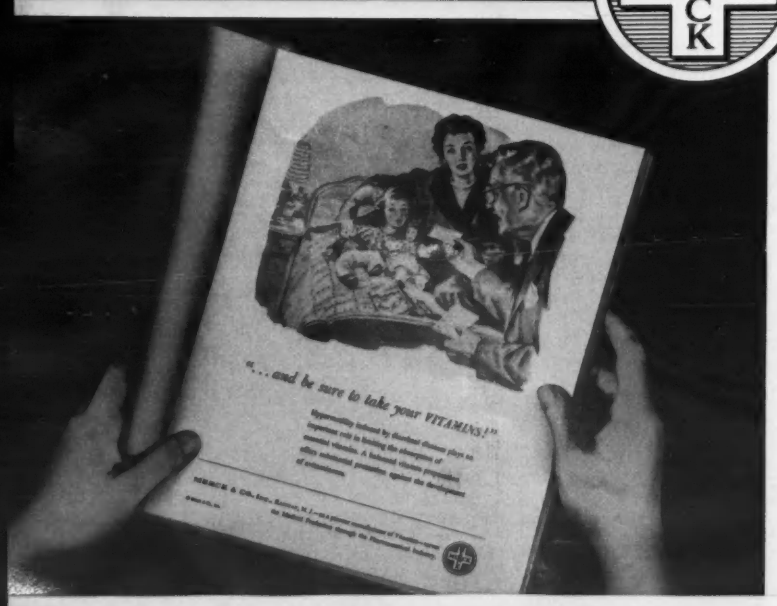
Prompt delivery of Merck products is assured. In addition to the five Merck plants, strategically located warehouses stand ready for speedy handling of your orders. Because you deal with a single source of more than 1,000 fine chemicals, Merck saves you time and simplifies purchasing.

Service helps solve your formulation problems

Merck offers technical service for the development and improvement of customers' formulations. This expert advice is available to you on problems in manufacturing, assaying, and labeling pharmaceutical, veterinary, and cosmetic preparations.

Merck Service has proved invaluable, not only in the formulation of standard preparations, but also in the introduction of new products based on recent Merck developments, as in the field of vitamins. In the case of these new products, Merck Service has defined compatibilities and incompatibilities, developed new methods of analysis for single and multiple-ingredient specialties, and compiled essential data for correct labeling.

With the aid of Merck Service, our customers frequently have been able to enter promptly into new and profitable markets and to develop preparations previously considered unfeasible.



Promotion helps you sell your products

Because so many of our customers market vitamin preparations, Merck initiated an extensive vitamin campaign to physicians, dentists, pharmacists, and nurses to support the sale of these products.

Full-page, color advertisements now have been used for over two years in leading medical and pharmacy journals. Professional reception has been unusually gratifying, and it has been decided to expand the campaign during 1954.

It is an interesting coincidence that, since the start of the campaign, not only sales of *high-potency* vitamin formulations have continued to increase but the downward trend of *maintenance-dose* vitamins has been reversed for the first time in more than a decade.

Research and Production for the Nation's Health

MERCK & CO., INC.
Manufacturing Chemists
RAHWAY, NEW JERSEY

Stomach substance, not USP, fro. dms	lb.	2.95	-	3.10
Storax, USP, cs	lb.	.78	-	.80
Stramonium leaves, bgs	lb.	.18	-	.20
Streptomycin hydrochloride, bulk, gm.	gm.	.17	-	—
Sulphate, bulk	gm.	.17	-	—
Strontium bromide, NF, cns., dms.	lb.	.77	-	.78
Carbonate, pure, dms., 5-ton lots or more, works	lb.	.33	-	—
1-ton lots, works	lb.	.37	-	—
tech., dms., works	lb.	.19	-	—
Chromate, bbls works	lb.	.46	-	—
Iodide, jars, 25-lb. lots	lb.	3.42	-	—
Nitrate, bbls., cs., works	lb.	.11	-	.12
Oxalate, bbls works	lb	No prices.		
Salicylate NF dms	lb	1.65	-	—
Sulphate air floated 90% 325 mesh bgs works	ton.	56 70	-	66 15
Strontium-calcium sulphide phosphorescent, dms., works	lb	2.85		2.85
Strophanthin, K, bots	oz.	25.00		-25.50
G, (see Ouabaine, USP).				
Strophanthus seed, Kombi, biologically tested, bgs	lb.	3.50	-	3.75
Strychnine, NF, powd., cans, 100-oz. lots	oz.	1.10	-	—
Phosphate, NF 100-oz. lots	oz.	1.14	-	—
Sulphate, USP powd., cans 100-oz. lots	oz.	.85	-	—
Styrene monomer, dms., c.l., works	lb.	.22¼-		—
t.c.l., works	lb.	.23¼-		—
tanks, works	lb.	21		—
Styrolyl acetate, bots	lb.	1.45	-	1.70
Sucrose, 100-lb. bgs	lb.	8.65	-	—
octa-acetate, denaturing grd., 100-200-lb. bgs., l.c.l., works.	lb.	.71	-	—
Sugar coloring (see Caramel coloring)				
Sugar of milk (see Milk sugar).				
Sulphabenzamide, dms	lb	4.00		4.50
Sodium dms	lb	4.10		4.60
Sulphacetamide fiber dms	lb	4.00		4.20
Sodium fib. dms	lb.	5.00		5.20
Sulphadiazin, USP, microcrystals, dms	lb	10.60		-11.10
powder, dms	lb.	10.25		-10.75
Sulphadiazin-sodium, USP, dms	lb.	11.25		-11.75
micro crystals dms	lb.	10.60		-11.10
Sulphaguanidin, USP, dms	lb.	2.50	-	—
Sulphamerazin USP micro crystals	lb.	10.65		-11.15
Sulphamerazin-sodium USP, dms.,	lb.	11.25		-11.75
Sulphamethazine, micro crystals, dms	lb	8.90		9.40
powder, dms	lb	8.50		9.00
Sulphanilamide, USP, 30-80 mesh., dms	lb	1.40		1.60
microcrystals, dms.	lb.	1.70	-	1.90
powder, dms	lb.	1.30		1.50
Sulphanilamidoquinoxaline, veterinary, dms	lb.	6.50	-	6.75
Sulphapyridin, NF, powd., bots., tins,	lb.	7.00		7.50
Sulphapyridin-sodium monohydrate, dms	lb	7.50		8.00
Sulphathiazole, USP micro crystals, dms	lb.	3.15		3.30
powder, dms	lb.	2.80		2.95
Sulphathiazole-sodium, USP, dms.,	lb.	3.05		3.20
Sulphur commercial, flour, bgs., mines	100 lbs.	2.30	-	—
bbls., mines	100 lbs.	3.05	-	—
lump, bgs., mines	100 lbs.	2.20	-	—
bbls., mines	100 lbs.	2.65	-	—
crude, bulk, c.l., mines, contract long-ton.		26.50	-	—
export, f.o.b. vessels, Gulf ports long-ton.		31.00		-33.00
domestic and Canada, f.o.b. vessel Gulf port long-ton.		28.00		-29.50
refined, flowers, USP, bgs., mines.	100 lbs.	4.00	-	—
bbls.	100 lbs.	5.25	-	—
flour, light, bgs., mines	100 lbs.	3.60	-	—
bbls., mines	100 lbs.	4.50	-	—
lump, bgs., mines	100 lbs.	3.30	-	—
rolls, bgs., mines	100 lbs.	3.85	-	—
bbls., mines	100 lbs.	4.40	-	—
salt block, bgs., mines	100 lbs.	3.50	-	—
virgin block, bbls., mines.	100 lbs.	3.45	-	—
rubbermakers, com'l, regular, bgs., mines	100 lbs.	2.40	-	—
bbls., mines	100 lbs.	3.55	-	—
98-100% passing through 325 mesh, bgs., mines	100 lbs.	2.50	-	—
bbls., mines	100 lbs.	3.65	-	—
refined, bgs., mines	100 lbs.	3.25	-	—
bbls., mines	100 lbs.	4.30	-	—
treated, 2.5% mineral oil, bgs., mines	100 lbs.	2.70	-	—
bbls., mines	100 lbs.	3.85	-	—
10% pine tar, bgs., mines.	100 lbs.	3.90	-	—
Dichloride, dms., c.l., works, frt. equald	lb.	.03¾-		—
l.c.l., same basis	lb.	.04½-		—
tankcars, same basis	lb.	.03½-		—
Dioxide liquid, com'l, cyls., works	lb.	.09	-	—
multi unit cars, works	lb.	.0535-		—
tanks works	lb.	.045		—
refrigeration, cyls., c.l., dlvd	lb.	.24	-	—
Monochloride, 55-gal. dms., c.l., frt. equald	lb.	.03¾-		—
t.c.l., same basis	lb.	.04½-		—
tanks, same basis	lb.	.03½-		—
Washed, NF, bot	lb.	.11	-	—
Sumac leaves, 28%, bgs., ex-dock,	ton.	117.00	-	—
ground, ex-dock	ton.	117.00	-	—
Superphosphate run of pile under 22% a.p.a. pulv., bulk, c.l., Malto	unit-ton.	.88		.91
Carteret, N. J.	unit-ton.	.88		.91
triple, 48% or more, a.p.a. pulv., bulk, c.l., East Tampa, Fla.	unit-ton.	.96	-	—

T

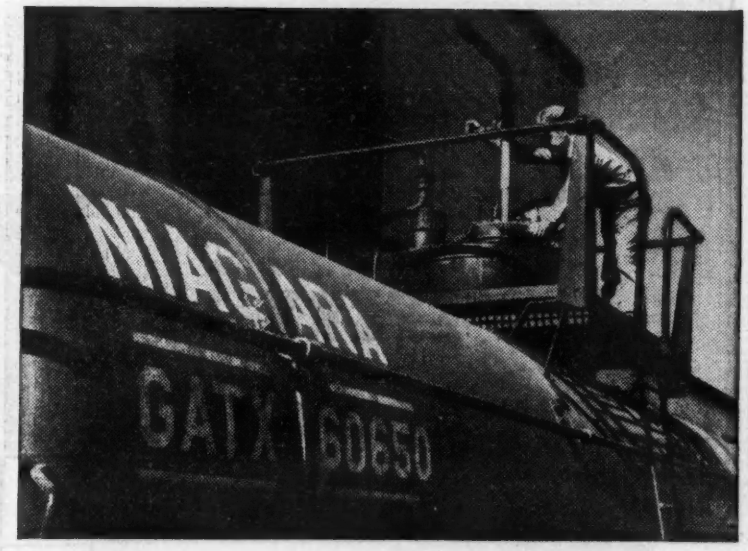
2,4,5-T, dms., c.l., works	lb	1.40	-	—
t.c.l., works	lb.	1.45		1.50
Isopropyl ester dms, c.l., works	lb.	1.45	-	—
t.c.l., works	lb.	1.50	-	1.57
Talc, dom. ordinary, Calif., grd. bgs., c.l., works	ton.	32.00		-38.50
Vermont oil color grd., bgs. c.l. works	ton	14.00	-	—
t.c.l. works	ton	17.50		—
fibrous, New York, grd., bgs., c.l., works	ton	25.00		-30.00
t.c.l.	ton	28.00		-35.00
99.5% 325 mesh, bgs. c.l. works	ton	27.00		—
t.c.l. works	ton	30.00		-32.00
99.95% micronized, bgs. works,	ton	36.00		—
imp Canadian grd. bgs. c.l. mines	ton	15.25		-35.00
Tallow, edible, tanks, dlvd	lb.	.10		Nom.
inedible, extra, tanks, dlvd	lb.	.07⅞-		—
fancy, bleachable, tanks, dlvd.	lb.	.03½-		—
No. 1, tanks, dlvd	lb.	.07⅜-		—
special, tanks, dlvd	lb.	.07⅜-		—
sulphonated, 25%, dms., l.c.l.	lb.	.08¼-		.086
50%, dms., l.c.l.	lb.	.11¼-		.11½
Tankage, animal, feeding, 9-11% ammo, bulk	unit-ton.	6.75	-	—
Chicago	unit-ton.	7.75	-	—

Tapioca flour, Brazilian, ex whse. bgs.	lb.	.13	-	.15½
Java, AAA, bgs., ex whse., bgs.	lb.	.07	-	.08
AA, bgs., ex-whse	lb.	.06½-		.07½
Tar acid oil, 15-18%, dms., c.l., frt. equald	gal.	.47	-	.49
l.c.l., same basis	gal.	.50	-	.51
tanks, same basis	gal.	.39	-	—
25-28%, dms., c.l., same basis.	gal.	.54	-	.56
l.c.l., same basis	gal.	.57	-	.58
tanks, same basis	gal.	.46	-	—
50-53%, dms., c.l., same basis.	gal.	.70	-	.72½
l.c.l., same basis	gal.	.73½-		.74½
tanks, same basis	gal.	.62½-		—
Coal (see Coaltar).				
Pine (see Pinetar).				
Tartar emetic tech, gran. or powd., dms	lb.	.56	-	.59
USP, powd., dms	lb.	.61	-	.62
Terpin hydrate com'l bbls., c.l	lb.	.24½-		—
t.c.l.	lb.	.25	-	.25½
NF, cryst., fib. dms	lb.	.57½-		.62
powd., fib., dms	lb.	.65	-	.69
a-Terpineol, dms., l.c.l. dlvd. E	lb.	.17	-	—
Terpineol, commercial, dms., c.l., South	lb.	.13½-		—
l.c.l., South	lb.	.14	-	—
extra, dms	lb.	.41	-	.60
prime, dms	lb.	.30	-	.45
Terpinglycol ether, dms., c.l., works.	lb.	.23½-		—
l.c.l. works	lb.	.25½-		—
tanks, works	lb.	.22	-	—
Terpinyl acetate, extra, cns., dms.	lb.	.57	-	.75
prime, dms	lb.	.55	-	.70
Propionate, dms	lb.	1.75		2.00
Terra alba (see Gypsum).				

Testosterone, USP, 100-gm. lots, bots gm.		.79	-	—
Propionate, USP, 100-gm. lots, bots gm.		.79	-	—
Tetrachloroethane, dms., works	lb.	.14½-		—
Tetrachloroethylene, tech. (see Perchloroethylene).				
USP, 55-gal. dms., works	lb.	.20½-		.21½
smaller, dms., works	lb.	.23½-		.25
Tetraethyl orthosilicate, dms., c.l., works	lb.	.71	-	—
t.c.l.	lb.	.72	-	—
Pyrophosphate, 40%, cns., dms., frt. equald	lb.	.69	-	—
Tetraethylenepentamine dms., c.l., dlvd., E	lb.	.57½-		—
l.c.l., dlvd E	lb.	.58½-		—
tanks dlvd. E	lb.	.56	-	—
Tetrapotassium phosphate, (see Potassium phosphate).				
Tetrasodium pyrophosphate (see Sodium pyrophosphate).				
Thallium metal, dlvd	lb	12.50		-15.00
Sulphate, 99%, bots., dlvd	lb	10.50		-13.00
Theobromine, NF, fib. dms	lb.	3.00	-	—
And sodium acetate, USP, fib. dms.	lb.	3.55	-	3.60
Salicylate, fib. dms	lb.	4.00	-	—
Sodio-salicylate, NF, fib. dms	lb.	3.90	-	—
Theophylline, anhydrous or USP, 100-lb. dms	lb.	3.15	-	4.00
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms.	kilo.	135.00	-	—
Mononitrate, USP, fib. dms	kilo.	135.00	-	—
Thiocarbanilide, dms	lb.	.50	-	.52
Thiodiphenylamine (see Phenothiazine).				
Thiophene, dms., c.l., works	lb.	No stocks		
Thiourea, tech., dms., c.l., works	lb.	.40	-	—
l.c.l., works	lb.	.42	-	—

Stomach Substance—Titanium Dioxide

Thorium nitrate, purified, fib. dms., 100-lb. lots or more, works	lb.	3.50	-	—
Threonine dextro laevo, bots., 1-kilo lots	kilo.	600.00	-	—
Thyme, French, bgs	lb.	.21	-	.25
Spanish, bls.	lb.	.10	-	10½
Thymol, fib. dms	lb.	3.00		3.25
Timbo root (see Cube root).				
Tin chloride stannous anhyd., dms., works	lb.	.824	-	1.031
Crystals, hydrous, dms., works.	lb.	.80½-		.84½
Metal (Straits)	lb.	.84¼-		.85½
Oxide, dms.	lb.	.87	-	.88
Sulphate, stannous, bbls	lb.	.883	-	.903
Tetrachloride anhyd. dms., works	lb.	.72	-	73
Titanium dioxide anatase chalk resistant, bgs., c.l., dlvd	lb.	.22½-		—
l.c.l., dlvd.	lb.	.23½-		—
ceramic, bgs., c.l., dlvd	lb.	.22½-		—
l.c.l., dlvd.	lb.	.23½-		—
regular, bgs., c.l., dlvd	lb.	.22½-		—
l.c.l., dlvd.	lb.	.23½-		—
metallurgical, natural, granular, bgs., c.l., f.o.b. Jacksonville, Fla.	ton.	120.00	-	—
Niagara Falls, N. Y.	ton.	137.50	-	—
5-ton lots, same basis.	ton.	142.50	-	—
ton lots, same basis.	ton.	147.50	-	—
Milled titanium dioxide $7.50 per ton higher.				
rutile, non-chalking, bgs., c.l., dlvd. E	lb.	.24¼-		—
l.c.l., dlvd. E	lb.	.25½-		—



for fast, thorough

Low Cost Degreasing

with maximum safety...

Nialk® TRICHLORethylene

Here's a chlorinated organic solvent that removes from metal parts virtually every kind of foreign matter—waxes, oils, greases, gums, tars, chips. And at lowest possible cost—because it:

CUTS POWER CONSUMPTION . . . the specific heat of Nialk TRICHLORethylene is less than ¼ that of water.

CUTS VAPOR LOSS . . . its vapor density is 4.5 times that of air.

COSTS YOU NOTHING EXTRA . . . we have never charged a premium price for Nialk TRICHLORethylene.

Equally important, Nialk TRICHLORethylene is fast, thorough, safe. Its low boiling range (86.6°-87.8°C, based on standard ASTM tests) permits vaporization at low steam pressure. Its low viscosity (0.58 centipoises at 20°C) and low surface tension (about 29 dynes per cm at 30°C) give rapid wetting of surfaces, plus thorough diffusion into pores and relatively inaccessible openings. It has no flash point and no fire point, is classed as nonflammable at room temperature and only moderately flammable at higher temperatures.

You will find, too, that Nialk TRICHLORethylene is stable and completely re-usable after distillation.

In short, Nialk TRICHLORethylene is an ideal solvent for almost any metal degreasing application. Quickly, safely, economically, it leaves parts clean, warm and dry, ready for immediate assembly, inspection or surface treatment. Order now. Delivery will be made promptly.

A request, written on your company letterhead, will bring you a free copy of our new Nialk TRICHLOR*ethylene booklet.*

NIAGARA ALKALI COMPANY
60 East 42nd Street, New York 17, New York

NIALK® Liquid Chlorine • NIALK Caustic Potash • NIALK Carbonate of Potash • NIALK Paradichlorobenzene
NIALK Caustic Soda • NIALK TRICHLORethylene • NIAGATHAL® (Tetrachloro Phthalic Anhydride)

Titanium Hydride—Wax, Bees

Titanium hydride, cns., works...lb. 7.95 - 9.00
Pigment, calcium-rutile base, bgs., c.l., dlvd. lb. .08¾- —
l.c.l., dlvd. ..... lb. .09¾- —
Tetrachloride, tech., dms., c.l., works..lb. .45½- —
l.c.l., works ..... lb. .48½- .56½
tankcars, works..... lb. .44½- —
a-Tocopherol, bots.....kilo.225.00 - —
Acetate, bots.....kilo.225.00 - —
Toludin base distilled, kgs .... lb 1.30 —
Tolu, balsam, cns.....lb. 3.00 - 3.50
Toluene (see Toluol).
Toluol, coaltar, industrial or nitration, tanks, works:—
Bethlehem, Pa. .....gal. .34 - —
Birmingham dist.....gal. .32 - —
Chicago dist.....gal. .35 - —
Cleveland, dist.....gal. .34½- .35
Geneva, Utah ..... gal. .26 - —
Johnstown, Pa.....gal. .32 - —
Lackawanna, N. Y.....gal. .35 - —
Lone Star, Tex ..... gal. .33 - —
Lorain, Ohio .....gal. .33 - —
Minnequa, Colo.....gal. .32 - —
Philadelphia, Pa.....gal. .35 - —
Pittsburgh dist.....gal. .32 - —
Sparrow's Point, Md. gal. .34 - —
Terre Haute, Ind .... gal. .35 - —
Youngstown, Ohio.... gal. .32½- .33
petroleum, industrial, 2° tanks, works, Albany, N. Y..gal. .35 - —
Bayonne, N. J.....gal. .35 - —
Baytown, Tex.....gal. .33 - —
Chicago, Ill.....gal. .35 - —
Detroit, Mich ... .gal. .35 - —
Philadelphia, Pa.....gal. .35 - —
Providence R. I.....gal. .35 - —
Wood River, Ill.....gal. .35 - —

Tonka beans, Angostura, cks....lb. 1.65 - 1.80
Brazilian, Surinam, cs.....lb. 1.00 - 1.25
Totaquine, 100-oz. lots, cns.....oz. .42 - —
Toxaphene, dms., c.l., works....lb. .17 - —
truckloads, works .....lb. .17 - —
ton to truckloads, works....lb. .20 - —
smaller lots, works.....lb. .23 - —
Triacetin, dms., c.l., dlvd. E. of Rockies..lb. .39 - —
l.c.l., same basis.....lb. .40 - —
tanks, same basis.....lb. .37 - —
Tributyl citrate, tech., dms., c.l .lb. .40½- —
l.c.l. .....lb. .41½- —
tanks .....lb. .39 - —
Phosphate, dms., c.l., works..lb. .52 - —
l.c.l., same basis.....lb. .53 - —
tanks .....lb. .50 - —
Tributylamine, dms., c.l., works. .....lb. .74 - —
l.c.l., same basis.....lb. .75 - —
tanks, same basis.....lb. .72 - —
Trichlorobenzene, dms., c.l., works, frt. alld..lb. .14½- —
l.c.l., frt. alld.....lb. .15½- —
tanks, frt. alld.....lb. .13 - —
Prices in the West 1¾c. higher.
Trichloroethylene, dms., c.l., or truckloads, works, frt. equald. .....lb. .11¼- —
dlvd. E .....lb. .12½- —
l.c.l., dlvd. E.....lb. .13½- —
tanks, works, frt. equald.....lb. .10¼- —
dlvd. E.....lb. .11 - —
Trichloroethane, dms., c.l., works.lb. .13 - —
l.c.l., works.....lb. .13½- —
tanks, works.....lb. .11½- —
Tricholine citrate, 65% solut., ret. cbys., works, frt. adjusted. lb. 1.40 - 1.45

Tricresyl phosphate, coaltar, dms., c.l., dlvd..lb. .35 - —
l.c.l., dlvd. .....lb. .36 - —
tanks, dlvd.....lb. .33 - —
petroleum, dms., c.l., dlvd..lb. .35 - —
l.c.l., dlvd. .....lb. .36 - —
tanks, dlvd. .....lb. .33 - —
Triethanolamine, dms., c.l., dlvd. E .lb. .26¼- —
l.c.l., same basis.....lb. .27¼- —
tanks, same basis.....lb. .24½- —
Triethylamine, dms., c.l., works, dlvd. E..lb. .47 - —
l.c.l., same basis.....lb. .48 - —
tanks, same basis.....lb. .45 - —
Triethyl phosphate, dms., c.l., works .....lb. .38 - —
l.c.l., same basis.....lb. .39 - —
tanks, same basis.....lb. .37 - —
Triethyleneglycol, dms. c.l., dlvd E. .....lb. .23¼- —
l.c.l., same basis.....lb. .24¼- —
tanks, same basis.....lb. .21½- —
Triethylenetetramine, dms., c.l., dlvd. E..lb. .48½- —
l.c.l., dlvd. E.....lb. .49½- —
tanks, dlvd. E .....lb. .47 - —
Trimethylamine, 25-40%, dms., c.l., works, frt. equald, basis 100% lb. .38 - —
l.c.l., works, frt. equald, basis 100% lb. .38½- —
tanks, works, frt. equald., basis 100% lb. .33 - —
Tripentaerythritol, bgs., l.c.l., works. .....lb. .37 - —
Triphenyl phosphate, bbls., c.l., frt. equald..lb. .39 - —
l.c.l., frt. equald.....lb. .40 - —
Triphenylguanidine, bbls., works .lb. .90 - —
Tripoli, air floated, bgs., c.l., works. .....ton.55.00 - —
double grd., same basis....ton.52.00 - —
single grd., same basis.....ton.50.00 - —

Tripropyleneglycol, dms., c.l., frt. alld..lb. .26¼- —
l.c.l., frt. alld.....lb. .27¼- —
tanks, frt. alld.....lb. .24½- —
Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic).
Phosphate (see Sodium phosphate tribasic).
Trypsin, pharmaceutical, 1:80, dms., works lb. 8.00 - 8.50
Tryptophane dextro-laevo, fib. ctns. works..kilo.165.00 - —
Tuba root (see Cube root).
Tungsten metal, powd., 99.9%, dms. works..lb. 6.21 - —
Turpentine, gum and wood (see Protective Coatings market, Naval Stores).
Tyrothicin, USP, bots.....gm. .75 - .85

U

Urethane, USP, dms.....lb. 1.50 - —
Unicorn root, false (see Helonias root).
true (see Aletris, root)
Urea, dom., 46% N, bgs., c.l., works. .....lb. .06 - —
l.c.l., works .....lb. .06½- —
45% N, bgs., c.l., 30 tons, frt alld Kan. Neb., N. Dak. Okla., S Dak Tex. and E ton.154.00 - —
l.c.l., dlvd. .....ton.162.00 - —
Urea-ammonia liquor, A and B grades N basis, tankcars, Belle, W. Va. ton.128.00 - —
C grade, tankcars, same basis. ton.126.50 - —
37 grade, tankcars, same basis. ton.155.50 - —
Uva ursi leaves, bls.....lb. .12 - .14

V

Valerian root, Belgian, bgs.....lb. .38 - .40
Valine, dextro-laevo, dms., works lb.21.00 -27.50
Valonia beards, 30-42% tannin, bgs. ex dock..ton.74.00 - —
cups 28-30% tannin bgs. ex dock. ton.54.00 -55.00
extract, powd., 62% tannin, bgs., ex dock, duty extra lb. .05½- —
Vanadium pentoxide, tech., dms., works lb. 1.28 - 1.33
Vanilla beans, Bourbon, tins.....lb. 8.00 - 8.50
Mexican, cuts, tins.....lb. 8.00 Nom.
whole, tins .....lb. 8.25 - 8.75
Tahiti, cs.....lb. 7.25 Nom.
Vanillin, ex eugenol, tins, 25-lb. lots. .....lb. 6.50 - 6.75
smaller lots .....lb. 6.90 - 7.25
ex guaiacol, tins, 25-lb. lots...lb. 3.00 - —
smaller lots .....lb. 3.05 3.15
ex lignin, tins, 25-lb. lots.....lb. 3.00 - —
smaller lots, tins .....lb. 3.05 3.15
Vinyl acetate, 55-gal. dms., c.l., dlvd. E lb. .17½- —
l.c.l., dlvd E .....lb. .18½- —
tanks, dlvd. E .....lb. .15½- —
Butylether, normal, tech., dms., c.l., works lb. .28 - —
l.c.l., works .....lb. .30 - —
tanks, works .....lb. .27 - —
Ether (see Ether Vinyl)
Ethylether, tech., dms., c.l., works. .....lb. .26 - —
l.c.l., works .....lb. .28 - —
tanks, works .....lb. .25 - —
Isobutylether, tech., dms., c.l., works lb. .28 - —
l.c.l., works .....lb. .30 - —
tanks, works.....lb. .27 - —
Methylether, cyls., works.....lb. .23 - —
tanks, works .....lb. .20 - —
Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.
Pyridin, ret. dms., works..... lb. 1.50 - —
Trichloride (see Trichloroethane).
Viosterol, in alcohol, 1,000,000 D units per gm. bots. lots of 10 billion USP units, 1,000,000 units. .025 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 - —
in nat., veg. oil, 400,000 to 1,000,000 D units per gm., bots., lots of 10 billion USP units, 1,000,000 units. .02 - —
lots of 1 billion USP units, 1,000,000 units. .025 - —
lots of less than 1 billion USP units, 1,000,000 units. .03 - —
Vitamin A synthetic, acetate, crystalline, beads, 500,000 A units per gm gm. .07¼- —
liquid, in oil 1,000,000 A units per gm. 1,000,000 units. .12 - —
Palmitate, liquid 1,000,000-1,500,000 A units per gm. 1,000,000 units. .12 - —
in oil, 1,000,000 A units per gm 1,000,000 units. .12 - —
B (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran concentrate and Yeast).
B_6 (see Pyridoxine hydrochloride).
B_{12} crystalline, gm. or 5 gm. vials. gram.295.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity gm.225.00 - —
C (see Acid, ascorbic)
D (see Oils, codliver and fish-liver, Calciferol, and Viosterol).
D_2 (see Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
H (see Biotin)
K, Active (see Menadione).
K_1 25 gm. bots.....gram. 4.50 - —
Violet (methyl) toner (see Blue methylviolet toner.
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls..... lb. 2.30 Nom.
Warfarin, 0.5%, dms., 50 lb lots, dlvd lb. 1.95 - —
25-49 lb. lots, f.o.b., N.Y., or Chi lb. 2.05 - —
5-24 lb lots, cns. f.o.b., N. Y., or Chi lb 2.15 - —
Wattle bark, fair average, or E. African, bgs., ex dock ton.100.00 - —
merchantable bgs., ex dock.ton.96.50 - —
extract, liquid 35% tannin bbls., lb. .09¾ .10
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra lb. .10 - —
S. Africa, 60% tannin, ex-dock, duty extra lb. .10 - —
Wax amorphous (see Wax microcrystalline)
Bayberry bgs. spot .....lb. .42 - .43
Bees, crude, African, bgs. ....lb. .52 - .54
Brazilian bgs .....lb. No stocks.
Central American, bgs.....lb. .54 - .55
Chilean, bgs.....lb. .55 - .56
refined, bleached, white, bricks lb. .65 - .67
slabs .....lb. .67 - .69
yellow, bricks .....lb. .59 - .60
slabs .....lb. .57 - .58

VALUABLE ASSISTANCE FOR EVERY USER OF WAX

If you manufacture a wax product using hard high-melting-point waxes, be sure you have complete information on all of the Petrolite waxes. Samples, price information and technical data are yours for the asking. Petrolite offers many high quality waxes, both microcrystalline and synthetic, which may fit into your manufacturing plans – *at a considerable price advantage to you.*

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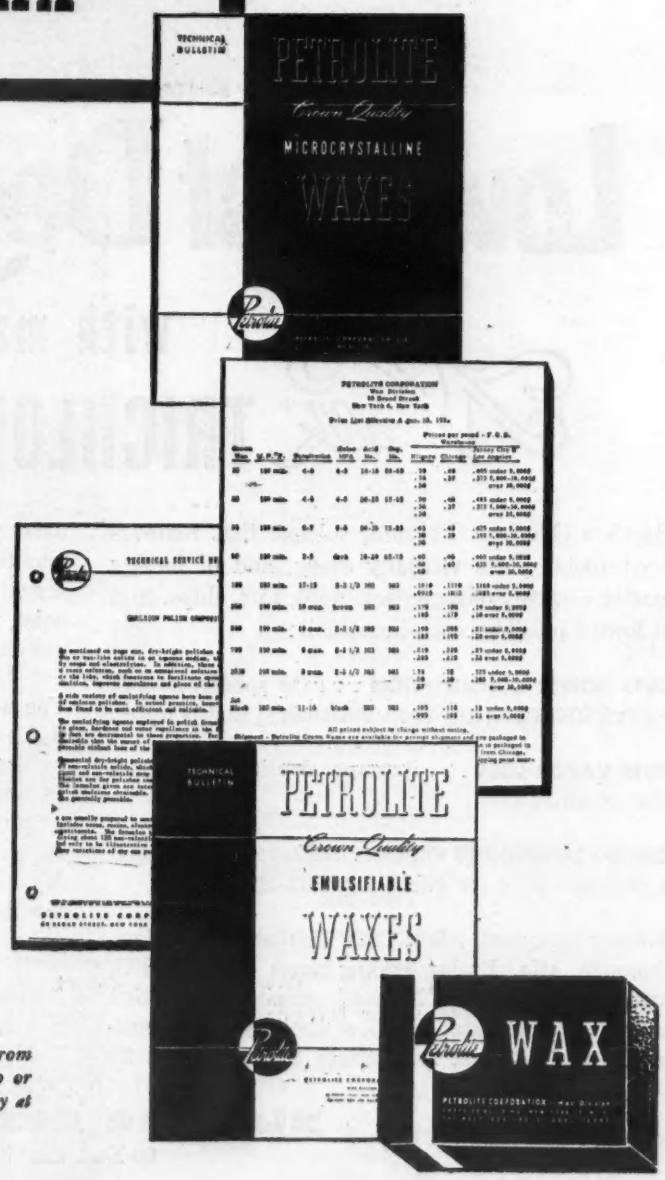
WAX DIVISION
CHRYSLER BLDG., NEW YORK 17, N. Y.
REFINERY: BOX 390, KILGORE, TEXAS



Petrolite waxes can be shipped from warehouses in Jersey City, Chicago or Los Angeles, and from the refinery at Kilgore, Texas.

PW 53-11 4

Wax, candelilla, crude, bgs. lb. .74 - .76
refined, bgs. lb. .77 - .79

Powdered candelilla, 20 mesh, 5c. per lb. higher; 80 mesh, 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, bgs., ton lots, lb. .83 Nom.
North Country, No. 2, bgs., ton lots lb. .93 Nom.
No. 3, Ceara, crude, bgs., ton lots lb. .82 - .84
refined, bgs., ton lots lb. .84 - .86
Parnahyba, crude, bgs., ton lots lb. .86 - .89
yellow, No. 1 Ceara, bgs., ton lots lb. 1.16 - 1.18
No 2, Ceara, bgs., ton lots, lb. 1.14 - 1.16

Powdered carnauba wax price differentials same as powdered candelilla.

Japan, bgs lb. .25 - .26
Microcrystalline, 170°-175°F., m.p., ASTM, penetration 15-20, amber, ctns., 20,000 lbs., group 3, works lb. .13 - .14
smaller lots, same basis, lb. .14 - .15
black, ctns., 20,000 lbs., same basis lb. .11½ - .12½
smaller lots, same basis, lb. .12½ - .13½
white, ctns., 20,000 lbs., same basis lb. .24 - .25
smaller lots, same basis, lb .25 - .26
180°-185°F., m.p., ASTM, penetration, 7-11, amber, ctns., 20,000 lbs., same basis lb. .16 - —
smaller lots, same basis, lb. .17 - —
black, ctns., 20,000 lbs., same basis lb. .14½ - —
smaller lots, same basis, lb. .15½ - —
white, ctns., 20,000 lbs. same basis lb. .27 - —
smaller lots, same basis, lb. .28 - —
190°-195°F., m.p., ASTM, penetration 2-7, amber, ctns., 20,000 lbs., same basis lb. .20 - —
smaller lots, same basis, lb. .20½ - —
black, ctns., 20,000 lbs., same basis lb. .18 - —
smaller lots, same basis, lb. .18½ - —
white, ctns., 20,000 lbs., same basis lb. .33½ - —
smaller lots, same basis, lb. .34½ - —
Montan, dom., refined, bgs. lb. .31 - .32
imported, crude, Bohemian, bgs. lb. .13½ - .14
German, bgs. lb. .14 - .14½
Ouricury, ref., bgs. lb. .82 - .84
Paraffin (see P).
Spermaceti, blocks, cs lb. .25½ - .31
cakes, cs lb. .26½ - .32
Sugar cane, dom., ref'd., slabs, works lb. .75 - .80
spot lb. .77½ - .82½
White lead (see Lead, white).
White pine bark, rossed, bls lb. .20 - .22
White precipitate, USP powd., dms., lb 5.00 —
Whiting (see calcium carbonate).
Wild cherry bark, thin, natural, bls lb. .18 - .19
rossed, bls lb. .19 - .22
Ginger (see Snake root, Canada).
Witch hazel bark, bls lb. .16 - —
leaves, bls lb. .23 - .24
Woodflour, 40 mesh, bulk, c.l., works East ton 32.00 - —
l.c.l., same basis ton 36 80 —
60 mesh, bulk, c.l. same basis ton 37 00 —
l.c.l. same basis ton 42 00 -55 00
80-100 mesh, bulk, c.l., same basis ton 45 00 -50 00
l.c.l., same basis ton 51.75 -57 50

Woodflour in bgs. extra, returnable.

Woolfat, crude (see Degras).
USP (see Lanolin).
Wormseed, American, bgs. lb. .20 - .25
Levant, bgs lb 4.25 4.50

X

Xylene (see Xylol).
Xylenol, cryst., 56°-58°C., m.p., ref. dms., l.c.l., works, frt. equald. lb. .30 - —
45°-47°C., dms., c.l., same basis. lb. .212 - —
l.c.l., same basis lb. .215 - —
tanks, same basis lb. .199 - —
fractions, over 7°C. b.r., except meta, dms., c.l., same basis gal. .96 - —
l.c.l., same basis gal. .99 - —
tanks, same basis gal. .85 - —
meta fraction, over 7°C. b.r., dms., c.l., same basis gal. 1.01 - —
l.c.l., same basis gal. 1.04 - —
tanks, same basis gal. .90 - —
Xylidins, mixed, dms lb. .39 - .50
Xylol, coaltar, industrial, tanks, works
Bethlehem, Pa. gal. .35 - —
Birmingham district gal. .32 - —
Chicago district gal. .35 - —
Cleveland district gal. .35 - —
Geneva, Utah gal. .27 - —
Johnstown, Pa. gal. .33 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star Tex gal .35 - —
Lorain, Ohio gal. .33 - —
Minnequa, Colo. gal. .34 - —
Philadelphia, Pa. gal. .36 - —
Pittsburgh district gal. .32 - —
Sparrows Point, Md. gal. .35 - —
Terre Haute Ind gal. .35 - —
Youngstown, O. gal. .32½ - —
petroleum, indust., tanks, Albany, N.Y. gal. .35 - —
Bayonne, N. J. gal. .35 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Philadelphia Pa. gal. .35 - —
Providence, R. I. gal. .35 - —
Wood River, Ill. gal. .35 - —

Y

Yara yara, ens lb. 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 int'l B units per gram, 100-lb. dms lb. .47 - —
90 int'l B units per gram, 100-lb. dms lb. .53 - —
200 int'l B units per gram, 100-lb. dms lb. .56 - —
300 int'l B units per gram, 100-lb dms lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul lb. .33 - —

Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below.

Yellow, benzidin, AAA, bbls., dlvd. lb. 1.91 - —
AAOT, bbls. lb 2.15 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies. lb. 2.85 - —
lithopone, all shades, bbls., frt. alld., E. of Rockies lb. 1.20 - —
Cadmium yellows, Los Angeles and San Francisco ex whse. 1c per lb higher.
Chrome, CP, bbls., dlvd. N. Tenn., and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island lb. .31 - —

Dlvd Ala., Fla., Ga., La (Shreveport, 1¼c. higher); Miss., N. C., S. C., Penna., Dallas, Tex., 1¼c higher; Ft Worth, Tex., 1½c. higher; El Paso, Tex 2c higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St Joseph 1.6c higher dlvd Pac Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago

Hansa, 10 G, bbls, same basis, chrome lb. 2.15 - —
G pigment, bbls lb 1.91 - —
Iron oxide, natural, French type, bgs., c.l., works lb. .05¼ - —
Peruvian type, bgs., l.c.l lb. .038 - —
pure, bgs. c.l., works lb. .10½ - —
l.c.l., works lb. .10¾ - —
Mercury oxide, bbls., 1,000-lb. lots, lb. 4.15 - —
smaller lots lb 4.17 - —
Ocher (see Yellow iron oxide, natural).
Zinc (chromate) bbls., dlvd lb 25 - —
basic dlvd lb 30 - —
Yerba santa leaves, bls lb. .40 - —
Yohimbine hydrochloride, bots, tins oz 4.75 5.25

Z

Zein, bgs., 30,000-lb. lots, works lb. .38 - —
1,000 to 30,000-lb lots, works lb. .40 - —
smaller lots works lb .43 - —
Zinc acetate, tech., bbls., dms., works lb. .27 - —
NF VIII, dms lb. .53 - —
Borate, bgs., c.l., dlvd. & l.c.l. dlvd lb. .192 - —
l.c.l. dlvd lb .203 - —
Carbonate, tech., rubbermakers, bgs. c.l., works lb. .14½ - —
l.c.l., works lb. .15 - —
Chloride, NF, gran., dms lb. .42 - —
precipitated powd dms lb .26 - —
solution 50% dms. c.l. works, 100 lbs 5.50 - —
l.c.l. works 100 lbs. 6.10 - —
tanks, works 100 lbs. 4.85 - —
tech. fused dms. c.l. works 100 lbs. 10.85 - —
l.c.l., works 100 lbs. 11.35 - —
gran., fib., dms., c.l., works 100 lbs 10.60 - —
l.c.l. works 100 lbs. 11.00 - —
Chromate (see Yellow zinc).
Cyanide, bgs., 1,000-lb. lots or more works lb. .523 - —
smaller lots, works lb. .543 - —
Dust, pigment, bbls., c.l., works, lb. .12¾ - —
l.c.l., works lb. .13¾ - —
Fluoride, bbls., works lb. .49 - .50
Hydrosulphite, dms., c.l., frt. alld. lb. .21½ - —
l.c.l., frt. alld lb. .22 - .37½
Iodide, NF, jars lb. 5.25 - —
Laurate, bbls lb. .43 - .46
Metal, slabs, E. St. Louis lb. .09½ - —

Wax, Candelilla—Zinc Sulphate

Zinc, naphthenate, liquid, 8%, Zn., dms., frt. alld. lb. .24½ - —
10% Zn dms., frt alld. lb. .30 - —
Oleate, fused, bbls lb. .36 - —
Oxide, pigment, American process, lead-free, bgs., c.l., dlvd lb. .13½ - —
l.c.l., dlvd lb. .14½ - —
leaded 35%, bgs., c.l., dlvd, lb. .14 - —
l.c.l., dlvd lb. .15 - —
50%, bgs., c.l., dlvd lb. .14½ - —
l.c.l., dlvd lb. .15½ - —
French process, com'l green seal, bgs., c.l. dlvd lb. .15¼ - —
l.c.l., dlvd lb. .16¼ - —
red seal, bgs., c.l., dlvd lb. .14¾ - —
l.c.l., dlvd lb. .15¾ - —
white seal, bgs., c.l., dlvd lb. .15¾ - —
l.c.l., dlvd lb. .16¾ - —
USP, ctns., c.l., dlvd lb. .16¾ - —
l.c.l., dlvd lb. .17¾ - —
Zinc oxide Pac. coast prices 1c. higher.
Phenolsulphonate, NF, gran., dms. lb. .39 - —
powd., dms lb. .42 .49
Resinate, precip., dms., frt. alld. lb. .26¾ —
Silicofluoride, ants works lb. .12 .13
Stearate, tech., USP, ctns., c.l. lb. .37 - —
l.c.l. lb. .38 - .43
Sulphate, cryst., 22% Zn, bgs., c.l., works frt alld 100 lbs. 7.40 - —
l.c.l., same basis 100 lbs 7.90 - 9.90

—Continued on page 41

Reliable Zinc Oxides for every Paint Requirement

CO-FUMED

AZO-35-L Low consistency, high gloss. Easy mixing and grinding.

AZO-50-L Low consistency, high gloss. Easy mixing and grinding.

BLENDED

AZO-35-M Medium consistency, acicular particle shape.

LEAD-FREE

AZO-ZZZ-11 Medium consistency, acicular particle shape.

AZO-ZZZ-22 High consistency, acicular particle shape.

AZO-ZZZ-33 Low consistency, acicular particle shape.

AZO-ZZZ-55 Low consistency, round particle shape. High gloss.

AZO

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Foreign Service Improvement

Some will call it "government by commission," with all the snear that goes with its saying by those who do not like the idea of the public, especially businessmen, to have any say in anything governmental. Some will call it "creeping Hooverism," a relatively new designation for any endeavor to get qualified assistance in connection with anything governmental. Some will be content to say:—"It's about time."

All will be talking about the newest move of President Eisenhower in the areas of foreign affairs—his approval of the creation of a five-man board to improve and expand the foreign service of the Department of State. All will be right—but that detracts nothing from the desirability of the objective of the proposed board. The United States never has had the foreign service that it needed, in size, in ability, or in activity. That need is far greater today than ever before. Whether the new board idea will effect the improvement that is necessary, as well as desirable, is wholly a matter of conjecture. The proposed group is to be composed, in part, of three civilians—characterized as "distinguished" in official references so far made. The criterion of their distinction has not been disclosed. The other two members are to be a former ambassador and a man who has been an Under-Secretary of State. There could be better qualifications, as the big talks in various fields of foreign affairs in the recent past have clearly indicated. The civilian members will have to be particularly distinguished indeed to make the board's functioning successful.

The news also has it that the board is to be bipartisan. That, also, is no recommendation. Foreign service is not a thing of party; it has a broad public character and should be wholly nonpartisan. The operations of a bipartisan group are always too much a thing of each subgroup's trying to make a mark for the party which it represents.

There are innumerable shades of opinion on each of the multitude of aspects of foreign affairs, foreign relations, foreign policy, foreign aid. No board could even understand the majority of those views—most of them do not mean anything. But, one thing is obvious: no measure of that understanding can be attained by any political approach alone, whatever its partisan or even diplomatic nature. Today, more than ever in the past, all those foreign matters are largely matters of business. For confirmation of that estimate one need but look at the bargaining and bartering by means of which the Soviet is getting itself a big place in world affairs—while its representatives in global conferences keep those of all other countries hopping from guess to guess on what it is all about. The guesses of the representatives of the United States appear to have come more croppers than those of any other major nation.

The new board of—or for—improvement is said to be purposed to do something about the inadequate staffing of foreign service; the mussed up method of utilizing what personnel there is; the poor morale in foreign service ranks—and the widespread criticism of personnel and performance.

The creation of the proposed board of advisers and so on is said to be a part of a program of reorganization of the Department of State. Evidently, as in similar movements relative to other departments, the emphasis is to be laid on service. It is to be hoped that something more than the mere word is in the mill. There are some divisions of foreign service which, because of the aforementioned business nature of foreign affairs, would seem to belong in the Department of Commerce; although that agency's services in some foreign matters are not giving much satisfaction. Just what the division with the Department of State may have to do with that condition is something which many analyzers have been wrestling with for years.

The foreign service of the federal government can be improved. It should be improved—in fact, it must be improved. One can but hope that the creation of the proposed board is at least a starting step toward that improvement.

Plastics Over Metals

While special cabinet groups and legislative units are looking and digging and even thinking in connection with the problems of supplying the country's need for metals, the army, which has had its funds cut so much that subsidies, tariffs, and other extra costs are out, has got on the big wagon of applied chemistry which is bringing plastics into all sorts of need-meetings, and is far ahead of the much-publicized making of automobile bodies out of plastics. It is making all sorts of things, from messtrays to land mines and assault boats out of man's newest materials, from locker trunks to "walkie-talkies."

Chemistry's biggest contribution to the needs of mankind in recent years are plastic materials.

One of the biggest new fields of civilian use of plastics is in the replacement of metallic tubing or piping in many areas, from domestic water systems to industrial handling of corrosive liquids and those which are wanted at high temperatures—up to 450 degrees Fahrenheit. The potential saving in copper alone is said to be most encouraging to those concerned with the resources in that metal.

Plastic piping has been in use, domestically and industrially, on an expanding scale for some time in Europe. Vinyl materials were mainly used. The processing has been both molding and extruding. Plans for the production of piping from an atom-treated plastic material in the United States were discussed at the recent Canadian meeting of the Society of Plastics Engineers. An enterprise for the production of plastic piping for the oil and gas industry was set up in this country some weeks ago after more than a year's experimentation. That piping is made of a reinforced plastic material. Later on the scene is a producer of flexible tubing from a fluorocarbon material. Its program comprises also the production of stiff piping by incorporating glass fabric in the plastic material. Still another prospective producer has reported completion of its sales executive organization. Information on the composition of its pipe is not at hand.

Plastics chemistry and engineering are still in their infancy. It must be admitted that they are husky infants, and it is easy to see them growing from day to day. Their achievements already are a broad guaranty against the threat of an exhaustion of supplies of metals and other natural resources. They will do much more in many directions within the next decade and can confidently be expected to permit the forests of the world to go back to their original role of protector of the soil and of animal life up to the human level and prevent their progressive disappearance under the strain of providing mankind with various materials for a number of utlizations. The plastics age affords opportunity for really departing from some of the things which have persisted since the bronze and stone ages.

For the Bookshelf

A SPECULATION IN REALITY. By Irving F. Laucks, Cloth; 152 pages, 5½x8¼ in. New York: Philosophical Library. $3.75.

Dr. Laucks has drawn up a type of prospectus here, one calling for a new kind of speculative investment—investment in a program of scientific investigation looking into the human soul's operating reality. The word "speculation," as the author points out, carries both an intellectual connotation as well as its ordinary meaning of promised gain. In developing his presentation, Dr. Laucks outlines evolutionary physical and chemical causes, which, over the eons, have resulted in the living world as we see it and man's soul as we sense it.

The author regards the soul as the highest natural development to date. Man's present state of confused disregard for his soul, he believes, is due to his loss of faith in the spiritual teachings of religion, whose explanations of the natural world were weakened by the discoveries of materialistic science. However, Dr. Laucks, adds, these discoveries were discredited in their turn by the nuclear physical theories which denied the actuality of matter. Nowhere does the author try to explain the creation of life and the soul by spontaneous temporal causes alone.

Dr. Laucks apparent acceptance of paranormal psychic phenomena may be questioned by some. However, it is difficult to find fault with his premise that careful, scientifically-controlled investigation of such infrequent happenings may offer the best opportunity to learn more about the laws that govern the non-material side of our existence.

The author feels that man's former regard for his soul as his single, most important possession can be regained through confidence in the factual findings of modern science, if man will but finance its search for truth. He sees a brightening world as man's increased knowledge earns him greater ability to resist false leaders and false causes. Whatever one's opinion of Dr. Laucks' views, it is evident that few authors have attempted such a major theme more directly or more succinctly.

Washington Talks It Over

—*Continued from page 5*

subpoena the records of several of its competitors with their customers, with hardly any limit on the extent of information requested. The competitor firms protested and appealed to the commission which overruled the examiner by stating:—

"The respondent is entitled to subpoenas directing the production of such documents and records as are relevant to its defense that its lower prices were made in good faith to meet a lawful equally low price of a competitor. Respondent is not entitled to access to documents and records of its competitors which are not relevant to that defense."

The commission added that the subpoenas should be limited not only to the documents and records pertaining to sales and offers to sell by competitors to customers of the respondent who the record shows were sold at the lower prices, but they should be further restricted to the time period involved in the commission's prima facie case.

US Trade Missions Scheduled

The government is getting ready to send a number of trade missions abroad to explore the possibilities of expanding international trade in food and fiber. The general makeup of the groups, reflecting commodity and organization interests in foreign trade, plus a general schedule and set of instructions to guide the members in their work has already been approved.

President Eisenhower suggested sending the missions abroad in discussing the farm problem with congress in his message of January 11. He suggested a "series of trade missions"—one to Europe, one to Asia and one to Latin America—to explore the immediate possibilities of picking up some business for American agricultural products.

As now planned, the missions will leave in early March and return in April. Participants will be authorities on agricultural trade (representing such commodities as wheat, cotton, livestock, dairy products, soybeans, rice, fruit and tobacco) and leaders of major trade and farm groups.

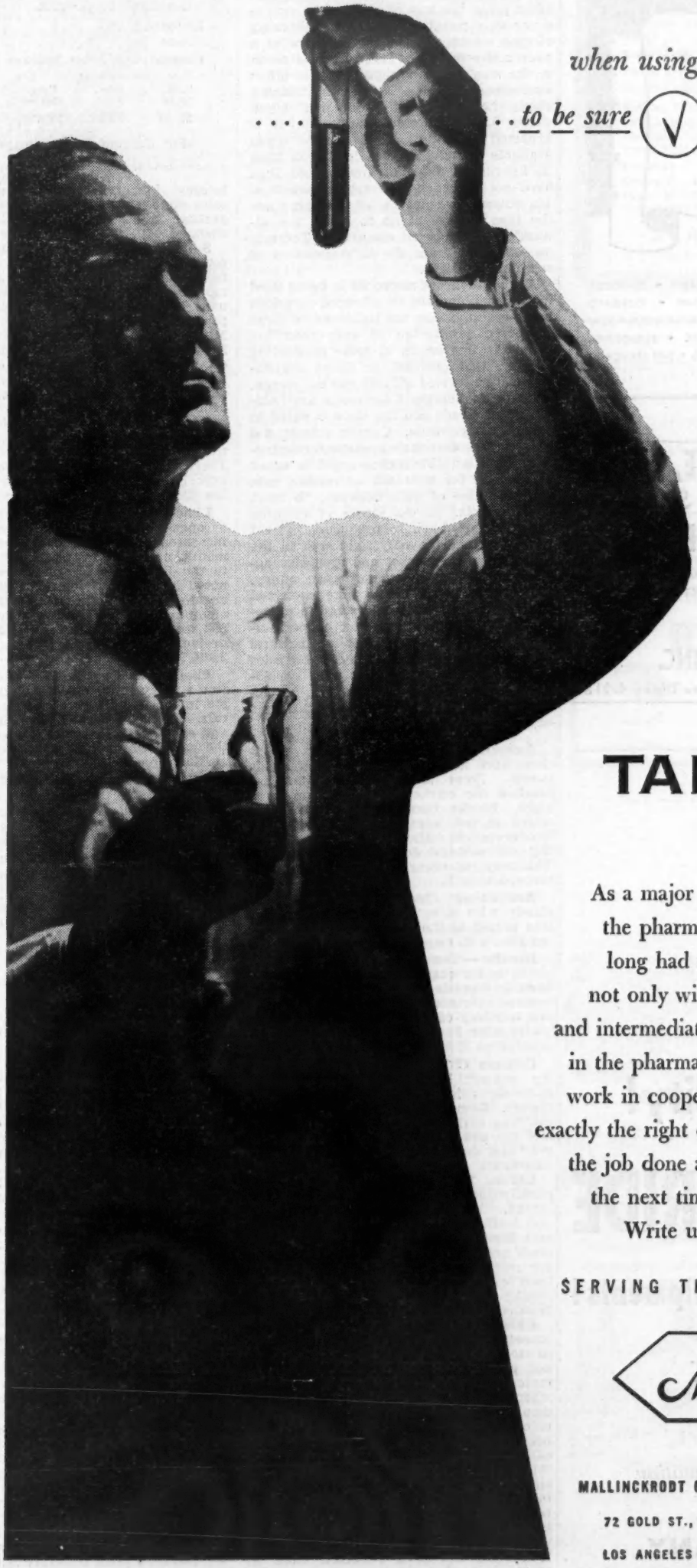
Antibiotic Makers Lot Easier

Antibiotic drug producers have been relieved of one of their biggest headaches by a recent action of the Food and Drug Administration.

Ever since the beginning of the antibiotic certification program, it has been a requirement of the government that the certification expiration date be stamped on the label of every vial of certified product. When placed in separate cartons or when a number of vials were nested in a single carton, the expiration date had to be stamped on the outside carton also.

This was all right with the industry until FDA began shoving the expiration dates back as more experience was gained with the keeping qualities of these drugs. For example, streptomycin when first introduced was thought to be "good" for only twelve months. But it now may be stored for four years without losing its potency. This meant that every time the expiration date was extended, every vial had to be removed from its carton, its old label washed off and a new label attached. With goodly quantities of the drugs in storage, this became a real problem to manufacturers.

FDA has relieved the situation by making it unnecessary in the future to place the date on the vials in the first place if the vials are packaged in individual cartons. The date stamped on the carton will be sufficient to satisfy the government. This applies only in cases where the individual vial is packaged in a separate carton. Where a number of vials are packaged in a single carton, the date on the vial still must be shown.



when using fine chemicals

. . . . . to be sure (√) check the source

BACKGROUND FOR

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Heavy Chemicals

Price trend continued upward last week, the index showing 98.58 compared with 98.52 in the preceding period. Another price lift was established in quicksilver as a result of a further tightening of spot stocks and the maintenance of a more active demand. There was not much in the way of news regarding the other nonferrous metals. More zinc mining plants have cutback production while stocks have continued to pile up. It is expected that less nickel will be made available for civilian use in March than in February. Sales of copper and lead have not exceeded moderate dimensions. Tin prices have not varied enough since the turn of the month to cause any alteration in tin based chemicals. There is no easement from the tight position of selenium in sight.

More anhydrous ammonia is being used in the manufacture of nitrogen solutions but the supply has not tightened to date. Increased production of anhydrous has given the impression in some producting quarters that demand for direct application can be leveled off this coming season. Sales of ammonium bicarbonate are holding about steady and the same is noted in ammonium chloride. Caustic potash and other potash chemicals continued relatively quiet. No visible pickup could be noted in demand for soda ash or caustic soda with supplies of both adequate to meet requirements. Excess stocks of chlorine are still a problem to producers. Nickel salts remained the only tight spot in the heavy chemical market and prospects appeared to favor an even shorter supply. Sulphuric acid shipments were sustained at former levels and could stand improvement. Industrial demand for copper sulphate continued good but agricultural sales were definitely out. Day by day sales of the tin based chemicals were considered satisfactory but there was no apparent disposition to extend commitments beyond actual needs.

Price Trends

Advanced
Quicksilver, $2 per flask.

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Feb. 13, 1953
98.58	98.52	98.49	95.56

(*For Current Prices see page 9*)

Ammonia, Anhydrous—Market conditions have not changed much so far this month. Some agricultural demand has reached the market and expansion is in sight. Stocks have continued available which is not unusual during February. Producers had difficulty last year in leveling off demand for direct application. This may not occur in 1954 owing to increased output.

Ammonium Bicarbonate — Demand steady with sales considered normal for this period of the year. Prices are holding firm with no scarcity of stocks in sight.

Bauxite — The Aluminum Association states in its quarterly bulletin that large bauxite deposits with 47 percent alumina content have been discovered in the northern territory of Australia, particularly on Marchinbar Island. Expected yield is estimated at 10,000,000 tons.

Calcium Chloride—Aggregate sales for ice control have been of satisfactory dimensions this season, according to producers. Demand dipped a bit last week but was still considered good. Suppliers had the situation well under control this year and there were no serious delays in shipments.

Carbon Tetrachloride—Demand not unusually active during the first half of the month. It was stated that textile mills and leather plants who use this material as a degreasing agent as well as the metal trade are buying for current wants. Sales for solvent uses have also been smaller than usual for this period of the year. Stocks have remained adequate to meet requirements promptly.

Chlorine — Supply continues ample at present with indications that the increase in stocks is becoming serious. Demand is not pressing from any direction. Some material is moving for insecticide use where DDT has experienced an uplift in demand for export. Domestic demand for chlorine for insecticide use, however, has been off for the past two years and the call for the coming season is uncertain at this time. Chlorinated solvents at present are not commanding unusual attention but shipments to the paper mills have been good. Production of chlorine has been cutback in an effort to bring the market into a better state of balance but the result has been reflected more in caustic soda than chlorine.

Copper Sulphate—Industrial demand remained steady last week with shipments maintaining a satisfactory average. There were no early buyers for agricultural use although there seemed to be slightly more interest in market conditions. Export sales were slow with an absence of important transactions. Prices were unchanged with the supply ample.

Shipments of copper sulphate in December at 4,104 tons dropped 31 percent from November and were at the lowest monthly rate since this series began (January 1951) and probably for many years prior thereto, according to the Bureau of Mines. Production rose 13 percent over November to 5,904 tons and was the largest since July; it was, however, smaller than the average monthly rates for many years prior to 1953. Stocks rose 31 percent to 7,016 tons and at the November rate of shipments were sufficient for almost two months' requirements. Foreign trade data for December are not available. There were no imports in November and exports of 3,210 tons were more than double the small quantity in October.

Lime—In August, 1953, domestic sales of open-market lime (729,195 short tons) increased 2 percent over the previous month, according to reports by producers to the Bureau fo Mines. Increases were noted in all the major uses. Sales to the chemical and other industrial users amounted to 402,271 tons, including 338,899 tons of quicklime and 63,372 of hydrated. January through June sales totaled 2,404,701 tons.

Phosphorus Oxychloride—Continued to find a fairly active outlet as an intermediate in the manufacture of organic chemicals. It is also used as a chlorinating agent and catalyst. Trichloride is used in about the same consuming fields and both sell at the same price.

Potash, Caustic—Buying interest was not accentuated to any unusual extent last week. Demand from the chemical, soap and other consuming industries continued relatively quiet with occasional replenishment of inventories about the best that can be reported. Stocks were adequate to meet requirements.

Potassium Carbonate — Demand slow with glass plants showing little attention at present and sales to other consuming industries confined chiefly to actual wants. Prices holding steady with producers maintaining adequate inventories to meet current needs.

Potassium Chlorate—Market conditions offered no important change over the past week. Producers remained in a position to offer prompt shipments with buyers reluctant to extend commitments beyond actual wants.

Potassium Stannate — Sales representing actual wants continued fairly active last week. The market held steady because tin metal has not changed sufficiently since the first of the month to cause any variation in potash quotations. There is no shortage of stocks and shipments are being made promptly. Producers quoted 64.7c. to 71.3c. per pound delivered east.

Salt—Nearly 20,000,000 short tons of salt were produced in the United States in 1952, according to reports of producers to the Bureau of Mines. This was slightly less than the record output in 1951. The decline consisted largely of a decrease of a little more than half a million tons of salt in brine. This was a reflection of decreasing production of soda ash for which salt is the raw material. Consumption in 1952 was placed at 19,202,037 tons.

Soda Ash—Shipments while reported good did not pick up last week and according to producers the movement to consumers is off a bit compared with the average set during the last quarter of 1953. Some slowing down in activities in consuming industries is reflected in the current movement of soda ash and this may be of temporary existence. Meanwhile, the supply position has been kept comfortable and the market's price structure has remained firm.

Soda, Caustic — Market conditions are similar to the plan noted in soda ash. Shipments appear generally good but the movement at this time is not setting any new records. Cutback production has kept

For Late Market Developments, See Page 4

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the market in a better state of balance while consumers are not finding supplies a problem. The outlook at present while confused is considered favorable with producers expressing confidence in an increased demand as the year progresses.

Sodium Bicarbonate — Consuming demand held about steady with little variation noted during the first half of February. There is no scarcity of stocks and immediate shipments are obtainable from producers at current prices.

Sodium Stannate — Steady and unchanged in price with the market still quoted on the basis of 85c. tin. Demand appeared to hold the improvement noted earlier in the month although individual sales did not exceed the limit of actual needs. Producers named 47.8c. to 53.2c. per pound freight allowed east.

Sodium Tripolyphosphate — Sales have continued good under a steady demand said to be mostly for detergent use. Moderate demand has also been experienced from the soap trade where it is used extensively as a soap-builder. Production has been sufficient to level off requirements promptly.

Sodium Tungstate—Market has continued steady at the late decline. The color manufacturers have been moderate buyers at $2.40 per pound delivered east.

Sulphur—Shipments of native sulphur in November were placed at 388,411 long tons from mines or plants by the Bureau of Mines. October shipments amounted to 440,258 long tons and in November, 1952, shipments totaled 439,375 long tons. Apparent sales in November showed 403,951 long tons, compared with 432,947 in the preceding month and 447,252 long tons in November, 1952. Shipments of recovered sulphur in November were 35,773 long tons, against 31,868 in October and 17,232 long tons in November, 1952. Apparent sales in November were 35,773 long tons, compared with 31,868 in the previous month and 16,543 long tons in November, 1952.

Tin Chemicals—Small lot sales have predominated in these markets but the total is described as satisfactory. The stability of tin metal since the first of the month has not been conducive to the extension of consumer commitments. Stocks have been kept adequate to meet current requirements and prices are unchanged and still based on tin at 85c. per pound.

Acids

Chromic—Small lot sales have predominated since the turn of the month with platers content to cover acutal needs. Supply situation remained comfortable. Bureau of Census gave production at 1,090 tons in November, against 885 in the preceding month.

Hydrochloric—Sales averaging fair for miscellaneous uses although the volume is said to be off a bit compared with the preceding month. Prices were described as steady with production keeping the market in adequate supply.

Hydrofluoric—Demand holding up well in most directions with shipments sufficiently heavy to prevent stock accumulations in producers' hands. The price position continued steady all around.

Nitric—Day to day sales continued good although producers admitted they could stand some increase. Prices were steady with no indication of a nearby change. Production has kept supply conditions comfortable with immediate shipments available.

Oxalic—The character of trading does not change much from week to week. Small lots have commanded the most attention with producers easily able to level off requirements.

Sulphuric—Inquiry active but not exerting pressure on production. Shipments are said to be about normal for this period of the year but are expected to increase later when the full force of the agricultural demand reaches the market.

Nonferrous Metals

Aluminum—Primary production for December was placed at 220,582,488 pounds by the Aluminum Association. November output was 211,273,802 pounds and in December, 1952, production showed 166,838,862 pounds. Total output for 1953 was given at 2,504,029,277 pounds, compared with 1,874,664,367 pounds during 1952. Sheet and plate production in December showed 78,791,561 pounds, foil (including foil in lamination, aluminum content only) amounted to 9,422,020 pounds, extruded products 19,923,901 pounds and castings 23,632,178 pounds. There were also 3,972,395 pounds of tube, 10,121,845 pounds of rod and bar, 2,245,734 pounds of wire other than electric conductor, 3,894,483 pounds of wire and cable (aluminum content only)) and 4,060,134 pounds of forgings.

Copper—Market conditions have not

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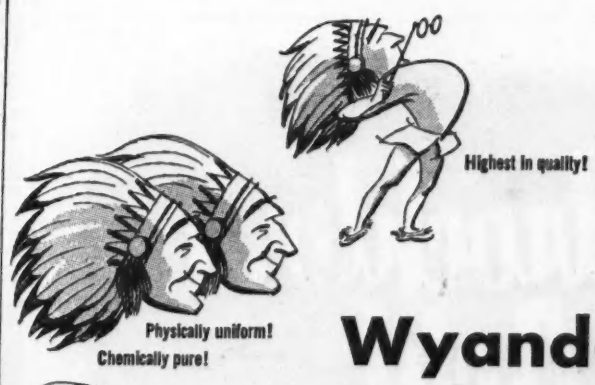

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changed much during the first half of February. Sales were moderate with bookings for delivery this month estimated at 45,000 tons. The London market showed intervals of weakness which had no apparent influence on American prices. Electrolytic was listed at 29½c. to 30c. per pound delivered Valley basis.

Lead—Sales while aggregating fair dimensions are considerably below the monthly average of 1953 according to trade reports. It was stated that January sales showed an increase of about 8,500 tons over the December total. Reports emanating from government sources suggest that a decision on giving relief to the domestic lead and zinc indsutry under the escape clause provision of the trade agreements act which was petitioned last fall by the lead and zinc industries may be announced sooner than June of this year. Sellers quoted the common grade unchanged at 12.80c. per pound St. Louis and 13c. delivered New York.

Magnesium—Shipments of all magnesium castings for the month of November, 1953, at 1,338 tons were 8 percent lower than October, 1953, and about 10 percent lower than November, 1952. These figures are released by the Magnesium Association based on information received from the U. S. Department of Commerce, Bureau of Census.

Quicksilver—Prices were advanced last week under a further tightening of supplies and a fairly active consuming demand. Sellers named $193 to $195 per flask for spot material.

Tin—Not unusually active last week. Trading in Straits spot tin showed prices from 85c. to 85½c. per pound which range has continued effective over the first half of February. There was not enough change in prices in the London or Singapore markets to affect domestic quotations.

According to the International Tin Study Group, it was estimated that world consumption during that month was 10,500 tons, which was unchanged from October. This included an estimated consumption for the United States in November of 4,200 tons, whereas the actual figure, released by the U. S. Bureau of Mines after the Study Group's Bulletin had been prepared, was about 500 tons less at 3,698 tons. This would reduce the estimated world production to 10,000 tons which is the lowest since May (8,000 tons) and June (8,500 tons) in 1952. World mine production of tin-in-concentrates during the first 11 months of 1953 amounted to 160,300 tons according to the latest statistics issued by the Tin Study Group and their estimate for 1953 is 177,000 tons. These figures compare with 156,600 tons and 171,000 tons in the same periods of 1952.

Zinc—Additional cutbacks in production were reported last week while stocks continued to soar to new high levels. Demand was moderate with purchases confined to actual wants. Prices were unchanged at 9½c. East Louis and 10c. per pound delivered New York.

Stocks of slab zinc at the beginning of January were placed at 180,843 tons by the American Zinc Institute. Production during January was 78,561 tons. Domestic shipments amounted to 54,785 tons, export and drawback 3,681 tons, government account 2,146 tons making total shipments 60,612 tons and leaving stocks on January 31, 1954, at 198,792 tons, compared with a revised total of 180,843 tons on December 31, 1953. Unfilled orders at the close of January were 26,378 tons, against 35,466 tons at the end of December. Daily average production in January was 2,534 tons, compared with 2,552 revised in the preceding month and 2,661 tons revised over 1953. Production of prime western in January was 36,625 tons, against 35,587 in December. Stocks on January 31 were 95,132 tons, compared with 87,241 on December 31, 1953.

Pulping Liquors Recovery Process to Be Told Today

A new process for the recovery of waste liquors from pulp mills will be revealed today at the thirty-ninth annual meeting of the Technical Association of the Pulp and Paper Industry by the Sulfox Corporation, New York. The process applies to neutral sulphite semi-chemical pulp mills as well as the usual sulphite pulp mills. With the latter, soda is used as a base instead of the lime now generally employed. Recovery of chemicals is about as good as that now found in modern kraft mills—about 90 percent.

The process, which has been under development for about five years, is covered by patents and applications both here and abroad. According to Dr. Arthur Pollak of Sulfox Corporation, the process offers the most economical way of recovering liquors from sulphite and semi-chemical pulp mills. Sulfox is now licensing the process in this and foreign countries.

Nat'l Research Opens Sales Office

National Research Corporation, Cambridge, Mass., has opened a sales office in Cleveland, Ohio, with George A. Goetz as its representative there. Mr. Goetz was recently transferred to the equipment division from National Research's development department. The new office is at 4205 Chester avenue, Cleveland 3. The telephone numbers are Express 1-4484 and 1-4485.

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Heads 2 Cyanamid Depts.

Dr. Victor E. Wellman has been named manager of the petrochemicals and the intermediate and rubber chemicals departments of American Cyanamid Company's organic chemicals division, Bound Brook, N. J. Dr. Wellman, prior to his new appointment, was assistant manager of the intermediate and rubber chemicals department. He joined Cyanamid's former Calco Chemical Division in 1945 as associate director of process development and became director of process engineering in 1951.

Commerce Dept. Advisory Unit Post to Boeschenstein

Harold Boeschenstein, president, Owens-Corning Fiberglas Corporation, Toledo, Ohio, has been elected chairman of the business advisory council for the Department of Commerce. As chairman, he succeeds John D. Biggers, chairman of Libbey-Owens-Ford Glass Company, Toledo, Ohio.

The following were elected vice-chairman of the council for 1954:—S. D. Bechtel, president, Bechtel Corporation, San Francisco, Cal.; Eugene Holman, chairman, Standard Oil Company (New Jersey), New York; Reuben B. Robertson, jr., president, Champion Paper & Fibre Company, Hamilton, Ohio; Sidney Weinberg, Goldman, Sachs & Co., New York.

National Carbon Names Five to Research Staff

National Carbon Company, a division of Union Carbide & Carbon Corporation, New York, has announced five appointments to its research staff. Dr. Max Bettman and Dr. Robert M. Broudy have joined the company's laboratories to work in solid state physics. Dr. Earl Wesley Murbach, formerly with California Research & Development Company, will work on electrochemical problems and Dr. Karl Meyer will do research in analytical chemistry. Dr. Lawrence M. Litz, also a former employee of California Research, has joined National Carbon labs.

John Enequist Feted

John Enequist, president of Enequist Chemical Company, Brooklyn, N. Y., was tendered a special luncheon February 9 at the Chemists' Club, New York, on the occasion of his fiftieth anniversary in the chemical industry. Mr. Enequist started with Seldner & Enequist, Brooklyn, in 1904, continuing with that concern until 1930 as secretary and sales manager. In the latter year, he formed his own company, Enequist Chemical, and has served as president ever since. George F. Smith of George F. Smith, Inc., New York, was chairman of the luncheon committee.

French Chemical Group Elects Two

The Societe de Chemie Industrielle of France has elected Dr. Emil Ott, director of the research department at Hercules Powder Company, Wilmington, Del., to membership on its council along with Jerome Alexander, a consultant with offices in New York. Dr. Ott is president of the American section of the society.

Trade Briefs

Warren Refining & Chemical Company, Cleveland, Ohio, has named George B. Bernhardy vice-president and general sales manager of the roof coatings and maintenance products division.

Celanese Corporation of America's company-wide accident frequency rate dropped to 1.3 for each million man-hours worked, compared with a 1952 national average of 8.4 accidents per million man-hours worked for all American industry.

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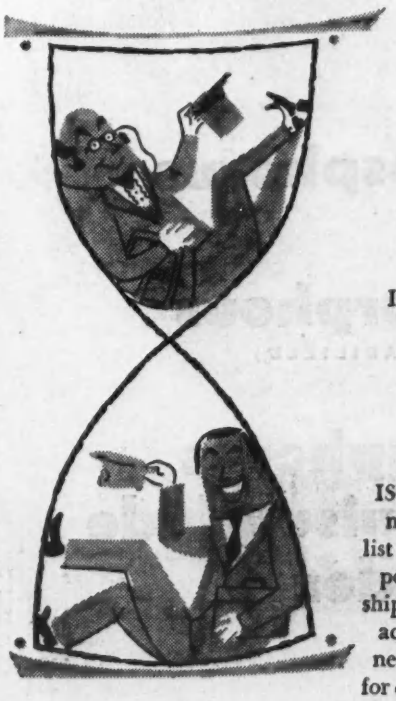

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US Revenue Returns Drop During December

Collections of internal revenue during December, 1953, totaled $1,882,000,000 as compared with $2,785,000,000 in the corresponding month of 1952, according to the Bureau of Internal Revenue of the Treasury Department. In making the figures public the bureau said that this November's totals are based on gross collections rather than deposits and, therefore, are not directly comparable to internal revenue receipts as shown in the Treasury daily statement of December 31, 1953. Among the collections reported by the bureau were the following:—

	December— 1953	1952
Coconut and other vegetable oils, processed	102,000	2,317,000
Distilled spirits, domestic excise tax	121,324,000	120,451,000
Distilled spirits, imported excise tax	27,967,000	25,930,000
Gasoline	25,548,000	76,366,000
Lubricating oils	5,581,000	6,939,000
Matches	.....	767,000
Narcotics, including marihuana and special taxes.	64,000	71,000
Silver bullion sales or transfers stamp tax	1,000	3,000
Sugar	12,000	7,812,000
Toilet preparations, excise tax	536,000	10,432,000
Transportation of oil by pipeline	382,000	—435,000*

*Negative amounts in monthly totals are due to revisions of amounts reported for earlier months.

BDSA Post to Orell

Bernard L. Orell, vice-president of the Weyerhaueser Sales Company, has been appointed director of the forest products division, Business and Defense Services Administration. Mr. Orell is on loan to the government from his company in accordance with a rotation system whereby experienced business men serve without compensation for periods of six months or longer. He succeeds John D. Davis, who has returned to his position as assistant to the operating vice-president of the Mead Corporation, Chillicothe, Ohio.

Metal Cans Shipment: November

Total shipment of metal cans during November were 15 percent below shipments during October, according to the Bureau of Census. Shipments during the first eleven months of the year were 9 percent above the comparable figure for 1952. These figures are based on metal can shipments expressed in terms of weight of steel consumed in the manufacture of the cans shipped. In November metal cans shipments amounted to 315,095 short tons, compared with October's figure of 368,917 short tons and a figure of 245,036 tons in November, 1952.

N. Y.-ACS Lecture Series Scheduled to Open Feb. 18

The American Chemical Society's New York section has announced that on February 18 it will open a ten-week series of lectures entitled, "Mechanisms of Organic Reactions." The lectures will be held in the Union Carbide & Carbon Corporation's auditorium, 30 East 42nd street, New York, from 7 to 9 p.m. Dr. Louis P. Hammett, professor of chemistry at Columbia University, will present lectures on February 18 and February 24, entitled "Methods for Investigating the Mechanisms of Organic Reactions."

Dr. Frank R. Mayo of General Electric Research Laboratory, Schenectady, N. Y., will conduct the March 3 program with a lecture on "Radical Displacement and Chain Transfer Reactions." On March 10, Prof. Charles G. Overberger of the Polytechnic Institute of Brooklyn will speak on "Decomposition of Radical Formers." Prof. Harlan L. Goering of the University of Wisconsin, Madison, Wis., will discuss "Radical Addition Reactions" on March 17.

"Radical Chain Reactions Involving Oxygen" will be the topic of the March 24 lecture to be delivered by Prof. Cheves Walling of Columbia University. Dr. Severo Ochoa of the New York State University College of Medicine will discuss "Mechanism of Some Enzyme Reactions Involving Coenzyme A" on March 31.

Dr. Richard B. Turner of the Rice Institute will talk on "'Conformational Analysis" on April 7. The April 14 lecture will be delivered by David Y. Curtin of the University of Illinois, who will discuss "Mechanism of Elimination Reactions." The final lecture on April 21, will be presented by Prof. Frank Westheimer of the University of Chicago on "Mechanisms of Some Oxidation Reactions."

Nathan Sells Metro-Atlantic Interest

Ernest Nathan has sold his interest in Metro-Atlantic, Inc., Centredale, R.I., and has resigned as chairman of the board and treasurer. Mr. Nathan's future plans will be announced later.

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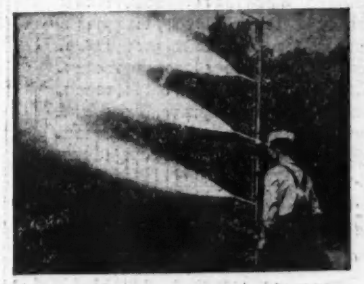

About the author . . .

Dr. de Ong brings to this book a vast knowledge of entomology and the insecticide industry born of 33 years of close association with laboratory and industrial research development. He was in charge of entomology at University Farm, Davis, California, where he taught research and extension work in insect control and insecticides. Then for seven years, he was director of the Insecticide Laboratory of the University of California at Berkeley.

For the past twenty years, during ten of which he acted as Secretary-Treasurer to the Pacific Insecticide Institute, his consulting work for many of the largest companies in the country has kept him in close touch with major problems, research and new developments, and has earned him an outstanding reputation. In addition to his many technical papers and bulletins, his long association with growers, manufacturers and officials, and his establishment of the industry advisory committees among manufacturers throughout the United States for the O.P.A., Dr. de Ong has written many amendments to the laws pertaining to insecticides in the western states.

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Willard Gibbs Medal to Go To Retired duPont Scientist

Dr. Elmer K. Bolton, a leader in the development of nylon and in the synthesis of "Neoprene," has been named 1954 winner of the Willard Gibbs Medal of the American Chemical Society's Chicago section, it has been announced by Dr. Marvin C. Rogers, chairman of the section. Dr. Bolton retired in 1951 as chemical director of E. I duPont de Nemours & Co., Wilmington, Del.

The medal will be presented to Dr. Bolton at a dinner meeting of the Chicago section on May 21, according to Dr. Rogers, who is director of research of R. R. Donnelley & Sons, Inc.

Cyanamid Publishes Products Data

An up to date review of American Cyanamid Company's literature on some of the new products being marketed by the firm for trial use has been published and is now available. "New Product Bulletin, Collective Volume III," a 159-page booklet, offers detailed technical data on acrylamide; 3-aminopropanol; N-tertiary-Butylacrylamide; N,N-diallyimelamine; guanamines; 3,3'-iminobispropylamine; N,N'-methylenebisacrylamide; potassium diisopropyl dithiophosphate; surface active agents "TR" and "BPE," and triallyl cyanurate.

Import Certificates Validity Period Made Ninety Days

Import certificates issued by the Bureau of Foreign Commerce under the Import Certificate-Delivery Verification Procedure now are valid only for ninety days from the date of certification, it has been announced by the bureau. The new validity limitation applies only to import certificates issued after January 28.

United States import certificates previously were valid for an unlimited period. BFC said the 90-day validity period was established to conform with practices of other countries participating in the IC-DV program. The purpose of this program, which became effective in October, 1952, is to prevent trans-shipment of strategic goods.

Commitments made on these certificates remain binding on United States importers regardless of the 90-day limit, the bureau stated. If the United States import certificate expires before it is presented to the foreign government and an extension is required the US importer should apply for a new certificate.

Vitro Unit Names Bivins

Franklin H. Bivins has been named general manager of the newly-created Vitro Rare Metals Company, Canonsburg, Pa., a division of Vitro Corporation of America, according to J. Carlton Ward, jr., president. Mr. Bivins was formerly assistant vice-president of Bristol-Myers Company, New York. Previously he was with Foster D. Snell, Inc., New York, and Old Collins Company, Brooklyn, N. Y.

Formaldehyde, Glycerin

—Continued from page 3

ing six were revised:—Ordnance facilities, military aircraft, warehousing and storage equipment, medical supplies and equipment, Portland cement and nitrogen.

To meet the specialized needs for medical supplies and equipment arising from mobilization requirements, necessary for military and civilian needs, ODM increased the goal by an additional $10,000,000 of private capital investment. While there are some items in this general field for which capacity is adequate, it was stated, the large number of products makes it impractical to spell out either a specific list of those items for which expansion is desired, or a list of exceptions. The Department of Commerce has arranged to confer with the military and the Public Health Service in selecting those items on which tax amortization certifications are to be granted.

The revised nitrogen goal of 3,500,000 short tons includes all forms of nitrogen, such as synthetic ammonia, by-product ammonia, and nitraphosphates. The revision represents an expansion of approximately 1,813,000 short tons over the capacity of the industry in 1950, and provides for 570,000 short tons of production over the goal established in 1952.

The latest increase includes 165,000 tons of nitrogen previously contained in the phosphatic fertilizer goal, and therefore allows for an increase of 405,000 tons annual capacity. The 1952 goal called for annual capacity of 2,930,000 short tons by 1955, plus 165,000 tons of contained nitrogen from the phosphatic fertilizer goal as nitraphosphate.

Margarine Decontrol by UK

—Continued from page 5

dom oilseed suppliers will probably adjust prices and not allow United States supplies to displace theirs in this traditional market. What is displaced may find a market on the continent. In any case, there may be room for slightly greater imports under decontrol.

"Decontrol will result in a drop of fats and oils stocks. As in the case of other commodities, the trade will be unable to finance the large stocks that the ministry carried. It will not receive bulk shipments under long term contracts and it is bearish in its market outlook. In fact, the ministry is already liquidating much of its stocks in anticipation of decontrol. Such liquidation will, of course, affect import requirements which will be reduced although this depends to some extent on the level of consumption after decontrol.

"When derationing occurs there may be a slight increase of consumption but it is not expected to be large since the level of margarine and cooking fat consumption in the last year has been sufficient to meet consumer demand. In fact some rations have not been taken up."

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Agricultural Chemicals

Ammonium sulphate shipments have made a moderate gain so far this month. Cokeoven production has dipped with steel production at 74 percent while synthetic output has been cut rather drastically but there is still plenty of material available at present with the possibility of a decided change in the supply picture by the end of March. Demand for superphosphate has also increased but it is stated the overall movement does not compare favorably with a year ago at this time. The movement of potassium muriate has been fully in line with the improvement noted in other basic fertilizer chemicals. Sales have increased for nitrogen solutions and while the market is not described as tight, there is an absence of excess stocks. Urea continued in rather free supply as a result of domestic production and arrivals from abroad. Some easement was reported in the nitrogen and potash supply position abroad.

Packing-house byproducts continued to command attention from the stockfeed trade. Although no price advances were reported, the markets held firm at previous levels. Steamed bone meal was taken for both feed and fertilizer needs. Stockfeed interests paid the advance recorded in the previous week for tankage. The poultry farmers are taking on menhaden meal at the higher prices recently named. Department of Interior states that domestic production of fish meal in 1953 was probably the highest on retcord for any year.

Ammonium Sulphate—Shipments continued to hold an increase over the preceding month with the trade expecting the movement to show steady expansion as the season progresses. So far there is no scarcity of stocks and prices are holding steady. While it was expected the awards for 208,000 long tons for Korea would be made by this time, no announcement has come through to date. It is expected that Japan will get the major part of the order.

Bone Meal—Sales of fair dimensions featured this market last week. Demand covered both feed and fertilizer uses. Prices for domestic steamed were quoted on the basis of $55 per ton, bags, carlots, works.

Castor Pomace—Sales were reported at $25 per ton works although it was stated that the volume was not as large as noted at the beginning of the month.

Dried Blood—Relatively quiet and firm locally. Continued light stocks have contributed strength to the market situation. Sales in the midwest continued fair with the stockfeed trade still taking on stocks. Sellers quoted $8 per unit of ammonia at New York and $8.25 at Chicago. Conditions are exactly the reverse on the Pacific coast where stocks are topping demand.

Fish Meal—Menhaden remained steady at the late advance with sellers holding back offerings in the face of a more active inquiry from poultry interests who need feeding supplies. Department of Interior gives production of fish meal in 1953 at approximately 241,000 tons compared with 221,400 in 1952.

Hoof Meal—This market has not shown much action since the turn of the month and it looked as though demand for fertilizer use had temporarily subsided. Last sales were at $6.75 per unit of ammonia Chicago basis.

Lime—Bureau of Mines reports sales for agriculture during August, 1953 at 22,517 tons including 7,852 tons of quicklime and 14,665 of hydrated. July output totaled 12,942 tons and sales from January through June amounted to 147,804 tons.

Nitrogen Solutions—Mixers are showing increased interest and the market has presented a more active appearance. Stocks are not excessive but are meeting current requirements at former prices.

Phosphate Rock—Suuply above ground is reported greater than a year ago at this time. Domestic shipments are slanting toward improvement while the export contract movement to North Europe and Japan has maintained a steady average.

Potassium Muriate—Contract shipments for mixing purposes continue to gain and stocks in producers' store-houses are gradually being reduced. It is expected that the increase will hold over this and next month.

Sodium Nitrate—Shipments of normal seasonal dimensions are noted with prospects favoring expansion as the season progresses. Suppliers are in a favorable position to meet requirements at current prices. It was stated that as much Chilean nitrate will be imported as in 1953 and more if the demand increases.

Superphosphate—Shipments of normal to mixers are gaining although it was stated that the movement to date has not equaled that of a year ago at this time. Supply conditions continued comfortable with prices unchanged.

Tankage—Market steady under a moderate demand for stockfeed use here and in the midwest. Sellers named $6.75 per unit of ammonia, New York, and $7.75, Chicago.

Reports from packers, processors and rendering plants show a production of 782,457 tons of meat scraps and 229,896 tons of feeding tankage during 1953, the Crop Reporting Board reported. The tonnage of meat scraps was 13 percent larger than the yearly total in 1952 and that of tankage 9 percent larger. Production of meat scrap in December, 1953, amounted to 68,688 tons, tankage output for the same month was 20,002 tons. Production of meat scraps during the last half of 1953, toaling 411,014 tons, was 15 percent above the 358,587 tons for the corresponding 6 months in 1952. October, December and July were the months of largest production in that order, and February and March the lowest. Production of feeding tankage during the July-December period of 1953, was 4 percent above 1952. The data shown in this report are based on reports covering about 98 percent of the nation's operating capacity for meat scraps and tankage.

Price Trends

Advanced
None
Reduced
None
Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Feb. 13, 1953
111.51	111.51	111.23	112.68

(*For Current Prices see page 9*)

Los Angeles Market

Los Angeles.—The local fertilizer market reflected only minor changes during the week. Trading was generally steady, showing only a very slight increase. Shipments of inorganic materials arrived close to schedule although light shipments have tightened ammonium nitrate and 16/20 grade ammonium phosphate. The organic market remained unsettled. Buyers and sellers ideas were some 50c. apart on blood meal with no trading reported. Tankage was firm with spot material available. Canadian herring meal firmed to $2.15 per unit, f.o.b. Vancouver.

Pesticides—Market conditions surrounding DDT are reported firm and sales for export have kept producers busy. It was pointed out that bids for 50,000 pounds of 75 percent wettable DDT for Siam opened on January 28 averaged about 2c. per pound higher than those noted on a former export order opened on January 8. BHC is not commanding the same attention as DDT for export, but the market is holding well at the late advance. No new price changes were reported in pyrethrum. Cube root is decidedly firm with the price trend more upward than downward. The supply position is tight and appears to be getting tighter with each successive week. Ryania held steady at the advance noted in our previous report. Warfarin had a good season for rodent control and is still in active demand.

Department of Agriculture states that indications are that there will be a few boll weevils in Tennessee cotton fields during early growing stages of the crop in 1954 according to fall hibernation counts made in McNairy County. Counts made on 100 samples from 20 fields showed an average of only 31.1 boll weevils per acre in hibernation, fewer than during the two previous years. The average for 1951 was 239.4 weevils per acre and 7,259.9 per care in 1952. The very small size of the population found in hibernation last fall can be explained by the extremely dry weather that prevailed in the county from July until November 22. Because of this drought, there was very little secondary growth in the cotton fields after the regular growing period ended and, consequently, no squares of food for a large population to develop in, as happened the preceding fall. There were many weevils in the fields during picking. Adults could be found in dried-up bolls that were partly open, stunted, or aborted but that were still on the stalks. These, however, are believed to have starved as there was practically no suitable food in the fields for them.

For Late Market Developments, See Page 4

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Current Prices

—*Continued from page 31*

Zinc sulphate, flake, 25½%, Zn., bgs., c.l., works	100 lbs.	6.55	—
l.c.l., works	100 lbs.	6.90	—
36% Zn, bgs., c.l., frt. alld.	100 lbs.	7.90	8.05
l.c.l., same basis	100 lbs.	8.65	8.80
Zinc sulphate in bbls. 40c higher			
USP, gran dms	lb.	.26	—
Sulphide, pure, bgs., c.l., dlvd	lb.	.2530	—
fluorescent fib., dms., less than 1,000-lb. lots, works	lb.	1.10	1.90
phosphorescent fib. dms., less than 1,000-lb. lots, works	lb.	1.85	2.50
Undecylenate, dms	lb	2.25	2.50
Yellow (see Yellow, zinc).			
Zinc-ammonium chloride bgs., c.l., works	100 lbs.	9.65	—
bbls., c.l., works	100 lbs.	10.25	—
l.c.l., bbls., works	100 lbs.	10.75	—
Zinc-cadmium sulphide fluorescent fib., dms., less than 1,000-lb. lots, works	lb.	2.10	2.90
Zinc-calcium resinate, dms., c.l., works	lb.	1180	1360
l.c.l., same basis	lb.	.1220	.1400
Zinc-formaldehyde sulphoxylate, basic dms., c.l.	lb	25½	
l.c.l.	lb.	26	41½
normal dms., l.c.l. works	lb	.52	—
Zircon (G), granular, bgs., c.l., works	lb.	.03½	—
5 tons to c.l., works	lb.	.03½	—
1 ton to 9,999-lb. lots, works	lb.	.04	—
smaller lots, works	lb.	.06½	—
milled, bgs., c.l., works	lb.	.04½	—
5 tons to c.l., works	lb.	.04½	—
1 ton to 9,999-lb. lots, works	lb.	.04⅝	—
500 to 1,999-lb. lots, works	lb.	.07½	—
Zircon (G) in barrels, 1c. higher.			
Zirconium acetate, 13% sol ZrO_2, c.l., 30,000 lbs. minimum, works	lb.	.23	—
Carbonate basic, cake bbls., works	lb	No prices.	
Hydride cns., works	lb.	7.25	11.50
Nitrate, dms., ex whse	lb.	4.50	7.00
Oxide, 92½%-99%, white, grd., bbls., or bgs., works	lb.	1.50	—
lump, electric-fused, bgs., c.l., works	lb.	.44	—
5-ton lots, works	lb.	.44½	—
1 ton to 9,999-lb. lots, lbs., works	lb.	.45	—
Zirconium oxide, C.P., white, grd., bbls., or bgs., works	lb.	1.50	—
lump, electric fused, bags, 500 to 1,999-lb. lots, works	lb.	.45½	—
smaller lots, works	lb.	.48	—
milled, electric-fused, bgs., c.l., works	lb.	.59	—
5-ton lots, works	lb.	.59½	—
1 ton to 9,999-lb. lots, works	lb.	.60	—
500 to 1,999-lb. lots, works	lb.	.60½	—
smaller lots, works	lb.	.63	—
Oxychloride, cryst., ctns., 5-ton lots, works	lb	.35½	—

Mica in Latex Paints Described

The Wet Ground Mica Association has issued its technical bulletin No. 16, entitled "Studies on the Behavior of Mica as a Pigment Material in Latex Paints—Part III." The bulletin is illustrated with photographs and tables. Copies may be obtained by writing to the association at 420 Lexington Avenue, New York 17.

New Jersey Zinc Veteran, Robert J. Peters, Retires

Robert J. Peters, assistant to the vice-president of New Jersey Zinc Sales Company, New York, has retired after more than forty-three years with the company. Mr. Peters joined New Jersey Zinc Company (of Pa.) as supply house clerk. Later he became assistant chief for lithopone in the east. In that position he acted as consultant and advisor during construction of the lithopone plant at Depue, Ill. In 1924 he was made chief of the lithopone department at Depue.

Mr. Peters was transferred to the New York office in 1926 as a sales engineer and, in 1929, became a salesman in the pigment sales department. He was appointed assistant to the vice-president in 1951.

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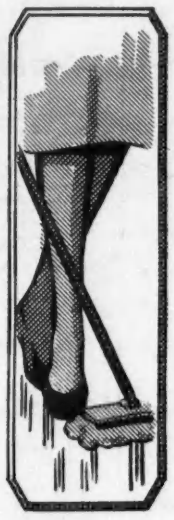

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Petroleum Derivatives

Winter demand kept price schedules of distillate fuels firm. Slow demand was still evident in easing gasoline schedules. Increased competition resulted in a cent drop of quotations for specially refined mineral spirits for tankwagon deliveries in New Jersey, while New York listings remained the same.

Prices remained firm for other solvents and diluents. Toluol and xylol continued to move well, although they were both more readily obtainable than they used to be. Consumers have been able to get the aromatics, where they could not do so a few months back. Some trade sources looked for increasingly competative conditions in the market. Others looked for much of the industrial demand to come back to pure aromatics, now that they were available. Many consumers had switched to substitutes during the shortage, frequently paying more for the substitute than for the pure aromatic, it was said.

Aliphatics were still a little on the slow side and there was not much change in the picture. Demand for mineral spirits was lagging behind former levels. VM&P naphtha held to a slow pace. Both aliphatics were in adequate supply for current buying needs.

Demand for petroleum waxes was very good. Producers moved fully refined paraffins as fast as they could make them. Most sources found orders were ahead of their output capacity. Crude scales remained in tight supply. Buying interest for microcrystalline waxes has also returned to a very good pace. Producers said that their wax business was about where it was in December, which was an excellent sales period.

Liquefied petroleum gases remained firm in a market which continued to show good activity spurred by cold weather. Stocks were ample to meet anticipated needs, but the considerable volume moved in the past months has eliminated all of the surpluses on railroad sidings and some of the underground storage.

Solvents and Diluents

Mineral Spirits—Suppliers reported that there was not very much change in this market during the past week. Demand was only fair. Several sources have indicated sales were lagging behind former levels for this time of year.

Competative conditions have brought on a 1c. reduction in tankwagon prices of specially refined mineral spirits in New Jersey. Current quotations were at 36c. per gallon on a delivered basis. Prices of odorless material in New York remained at 37c. per gallon in tankwagons.

Toluol—The market for this aromatic continued to show conditions were easier for the consumer. Supplies were no longer extremely tight and practically unavailable for civilian buyers. Most industrial users of aromatics were now able to get all of the toluol that they required. Several sources said that they will probably have to do some selling of the material in a few months. Other producers still saw good activity and new business coming into the market. From this angle, it was said, that consumers who had been using substitutes all through the shortage were likely to come back for toluol.

Price schedules have remained firm at previously established levels. Producers felt that there was no immediate outlook for a reduction. Increased costs of production were considered a factor which would hold prices up.

VM&P Naphtha—There was no significant change in the market for this material. Producers said that demand has not picked up yet. Current sales were running a bit behind former years at this time. An ample supply of material was available to take care of consumer requirements.

Xylol—Supplies were available to meet current requirements of consumers. Price schedules remained firm and unchanged from previous listings. More material has been obtainable since the pressure has come off of aromatics and a greater amount of distillation time could be alloted for the production of this solvent. Producers stated that sales were still at a pretty good pace.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended January 30 totaled 270,268,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 271,069,000 barrels for the preceding week, this represents a decrease of 801,000 barrels comprising a decrease of 1,302,000 barrels in stocks of domestic crude and an increase of 501,000 barrels in stocks of foreign crude.

Price Trends

Advanced

Fuel oil, diesel, N.Y.H., 0.2c. per gal.
furnace, No. 2, NYH., 0.2c. per gal.
Kerosene, N.Y.H., 43-44 s.g., 0.2c. per gal.
Penna. west., 45 s.g., 0.2c. per gal.

Reduced

Gasoline, N.Y.H., 86 oct., 0.2c. per gal.
natural, 26-70 oct., ½c. per gal.
Mineral spirits, spec. ref'd., N.J., tankwagon, 1c. per gal.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Feb. 13, 1953
105.42	105.34	105.35	104.13

(*For Current Prices see page 9*)

Waxes

Microcrystallines — Demand for these waxes was quite good. One or two sources were now reporting that they were falling as much as two weeks behind on shipments of incoming orders. Prices have held firmly to previously established levels. No price revisions were anticipated before quarterly announcements were ready to be made.

Paraffins—Producers reported that a sustained demand at high levels has kept fully refined grades moving as fast as they were being produced. Some sources were consistently running behind on orders. One supplier said all deliveries were delayed at least two weeks. Crude scale waxes also remained in tight supply.

It was said that lubricating oil cutbacks have contributed to the current short supply of crude scales. The well sustained demand alone has kept scale waxes moving to refiners whenever it is available. Then too, demand for additives and chlorinated paraffins have also added to the crude scale shortage.

Lighter Fractions

LPG's—No changes were noted in the market for propane and butane last week. A well sustained buying pace resulted from the steady cold weather in various sections of the country. Supplies were expected to be ample to take care of this winter's needs without any real shortages of material. Some of the underground storage facilities have been depleted, while others were about one-half empty, it was said. Contract prices in group 3 were settled at 4c. per gallon for propane and butane.

Miscellaneous

Fuel Oil—Continued increases for distillates brought 0.2c. raises in New York Harbor schedules for diesel oil and No. 2 furnace oil. Quotations of diesel were at 10.4c. per gallon, while No. 2 furnace was at 10c. per gallon, both in tankcars.

Gasoline—Continued reductions in the east lowered 86 octane prices in New York Harbor to a range of 13.45c. to 14.3c. per gallon, which was 0.2c. under previous quotations for both end of the range.

Natural gasoline schedules came down ½c. in group 3, at the same time, establishing a new range in prices. Current quotations were from 5c. to 5.125c. per gallon for 26-70 octane material in the mid-continental area.

Kerosene—Current quotations in New York Harbor for the 43-44 s.g. material were at 11c. per gallon in tankcars after the last 0.2c. advance. A similar increase brought Pennsylvania western 45 s.g. material up to a range of 11.45c. to 12.05c. per gallon.

Los Angeles Petroleum Market

Demand continued at a good level for solvents and diluents with the supply position well maintained. Prices were firm from previous listings:—Lacquer diluent quoted 18.3c. per gallon, 400 gallons or over, ex-tax, f.o.b. Los Angeles Basin area. Cleaning solvents, including Stoddard, quoted 17.3c. per gallon, same basis.

For Late Market Developments, See Page 4

Puerto Rico to Mark Ground Breaking for First Refinery

Ground breaking ceremonies marking the commencement of construction for an $11,000,000 petroleum refinery, to be built in San Juan, Puerto Rico, by Caribbean Refining Company, will be held today. The refinery will be the largest industrial plant thus far erected in Puerto Rico by private capital.

The Caribbean refinery is the first petroleum refinery to be built in Puerto Rico, and will process at the outset 10,000 barrels of crude oil per day. The crude oil to be processed at the refinery will come from Venezuela, and the principal products of the refinery will be high octane premium and regular gasolines, fuel oil, kerosene, distillates, butane, propane and residual fuel. The refinery will include fluid catalytic cracking facilities, a catalytic polymerization unit, a gas recovery unit and crude and vacuum distillation equipment.

Present plans call for the completion of the refinery early in 1955. The refinery will be built by Fluor Corporation, Los Angeles, and will employ processes under licenses from Universal Oil Products Company of Chicago. Principal stockholders of the refinery are Pontiac Refining Corporation of Corpus Christi, Tex.; Gulf Oil Corporation of Pittsburgh, Pa., and J. H. Whitney & Co. of New York.

Lion Oil Co. Starts Operations At Its New Refinery Facilities

Lion Oil Company, El Dorado, Ark., has placed in operation its new refinery facilities, constructed at a cost of about $5,500,000, according to Lion's president, T. M. Martin. The facilities include a model 4 fluid catalytic cracking unit, vapor recovery unit, alkylation plant, deethanizer unit, additional steam generating units and new product storage tanks. The refinery now has the capacity to manufacture 50 percent more highoctane gasoline, an increase of more than 187,000 gallons per day, with a corresponding decrease in production of heavy fuel oils.

Natural Gas Tax of Texas

—Continued from page 3

to markets in other states and that a tax on any part of that process, therefore, is a tax on interstate transportation in violation of the interstate commerce clause.

Justice Clark argued that if the tax was upheld it might conceivably set up a chain reaction with states all along the line imposing their levies. He said:—

". . . if Texas may impose this 'first taking' tax measured by the total volume of gas so taken, then Michigan and the other recipient states may have at least equal right to tax the first taking or 'unloading' from the pipeline of the same gas when it arrives for distribution. Oklahoma might then seek to tax the first taking of the gas as it crossed into that state. The net effect would substantially resurrect the customs barriers which the commerce clause was designed to eliminate."

Perfumers Meet in New York Wed.

The American Society of Perfumers will hold its monthly dinner meeting February 17 at the Advertising Club, New York. Miss Peggy Bell, beauty editor of *McCall's* magazine will be the guest speaker.

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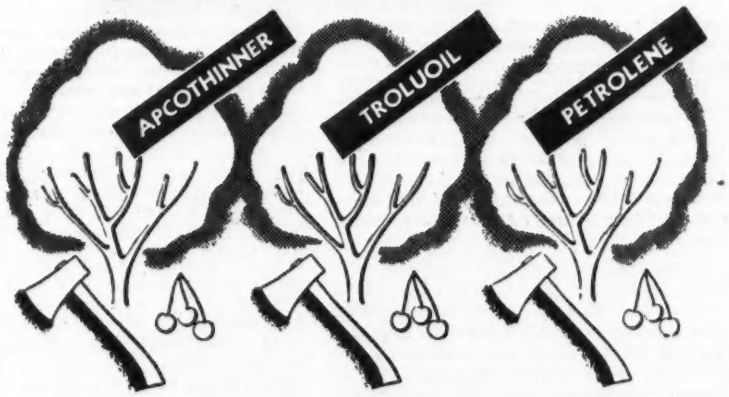

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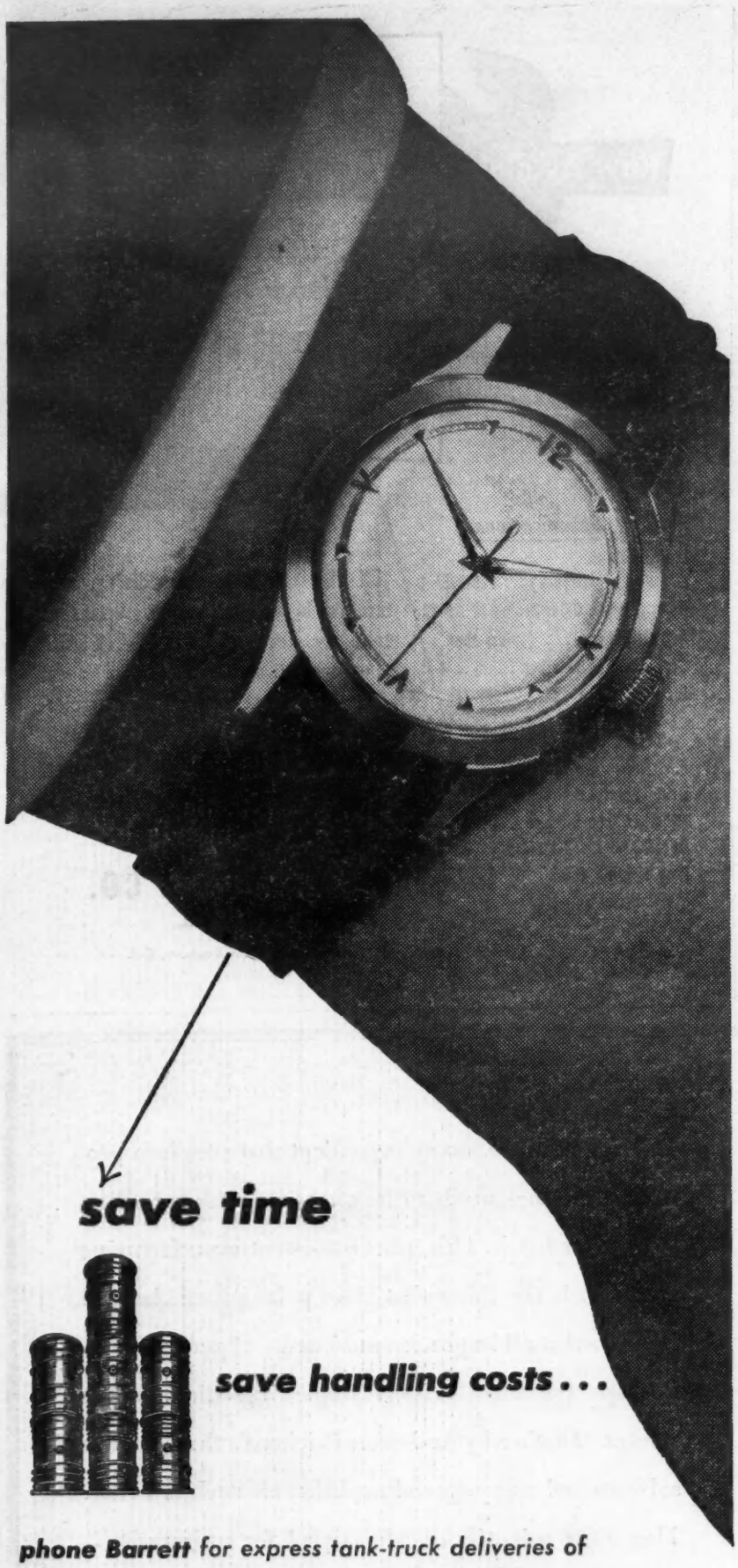

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Coal Chemicals

Prices remained firm and market conditions were relatively unchanged for coal chemicals last week. Many sources described the markets as being spotty. A few materials were moving better than others. In some markets, the amount of activity varied from producer to producer, partly because of the consuming industry supplied, and partly because inventory positions of individual consumers were not precisely the same.

Hence, with buying strictly on the basis of needs, an individual producer's sales of a specific material could vary with the industry served and with those specific consumers within an industry it served.

Among the basic coaltar chemicals, there was very little change in market conditions. A sustained demand for tar acids held business for the cresols and cresylic acid at a good level. Buying interest from cresylic resins was steady, moving a consistent amount of domestic coaltar and imported ADF acid. Aircraft engine cleaner business moved material from these sources, plus petroleum derived cresylic. Steady inquiries for metaparacresol came from tricresyl phosphate. Call for ortho fractions was a bit slow, with inventories a little long. Natural phenol moved relatively well, but producers could handle a larger demand. There has been a slight pickup in buying interest for these technical grades and some added demand for synthetic USP phenol. All producers of synthetic did not see a measurable change in volume in recent weeks. Most trade sources did agree that supplies were ample for current consumption levels.

Crude naphthalene sales were slightly improved since the start of the year, but were still under production capacity levels. Demand for imported hot-pressed material was down. Refined pyridin sales varied slightly among suppliers, but the general picture of the market was still slow.

Demand for creosote has slowed down a bit. Toluol and xylol were still in a balanced market. Supplies of both aromatics were available to meet the needs of industrial consumers. Further loosening up was felt to be due after government requirements at the arsenals are reduced some more. Trade sources expected buying for nitration to go on until May. But, directives could be cut before then. If nitration needs are met by May, then the entire coaltar output will be available for civilian consumption.

Phthalic anhydride was moving slightly better in February than it did in January. Maleic anhydride was holding its own. Most dyestuff intermediates were a bit slow, textile demand having slowed down in recent weeks. Orthoanisidin was slow. Orthodichlorobenzene continued to move well.

Steel production during the week ending February 14 was scheduled to be at 74.0 percent of capacity, or a production index rating of 109.8 (1947-49 = 100), according to the American Iron and Steel Institute. This was equivalent to 1,764,000 tons of steel, compared with 1,774,000 tons the previous week, 1,772,000 tons one month ago, and 2,248,000 tons one year ago.

Basic Products

Benzol—Ample supplies were available to take care of current consumer requirements. Producers moved a steady volume of benzol. However, buying interest was well below present production capacity. Prices have held firmly to former levels.

Production Estimate

Estimated output of coal chemicals recovered from cokeoven operations during the week ending Feb. 14, was as follows:—

Ammonia liquid, NH_3	lbs.	824,975
Ammonium sulphate	lbs.	29,816,961
Benzol	gals.	2,852,057
Coaltar	gals.	13,081,750
Creosote oil	gals.	730,692
Naphthalene, crude	lbs.	2,015,297
Pyridin, refined	lbs.	21,214
Toluol	gals.	560,983
Xylol	gals.	149,674

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Feb. 13, 1953
114.56	114.56	114.56	113.24

(*For Current Prices see page 9*)

No revisions in schedules were anticipated at this time. It was said that suppliers were not feeling a great deal of pressure for a price cut now because consumers stand to lose as much as producers by inventory losses. Lower benzol prices also would not increase the volume of material moving, a source added.

In order for demand to pick up, activity of styrene and synthetic phenol would have to show a great deal of improvement. Phenolic resins were beginning to pick up a little momentum. But, the pace will have to be sustained for a while before any results are felt back through synthetic phenol and benzol. The number of calls for this aromatic from insecticides has been low for many months. DDT production for the domestic market has not started to really roll yet.

Creosote—There was no significant change in the market for this material. Producers said that sales have been a little on the slow side for the past several weeks. However, business was not considered too bad. Some material was moving. And the pace was not felt to be unduly low considering the time of year. Buying interest normally is low in this season. A pickup in volume was anticipated as the warmer weather started in the south, a source said. Prices have held firm at former quotations.

Cresols—The tar acid picture still was one of a good volume of business. A fair movement of material was sustained at a relatively steady pace. A source said that it would not take much of an increase to make business really good. A sizable part of current activity was due to demand from cresylic resins. Then, too, part of the present buying pattern came from activity in gasoline additives which kept metaparacresol moving well. There was also some movement of cresols in tar acid blends for aircraft engine cleaner business. Prices schedules have remained firm at previously established levels. Supplies of most fractions were adequate to take care of the immediate needs of consumers. Stocks of orthocresol were still a bit long. However, producers were in a slightly better ortho position this year than they were last year at this time.

Cresylic Acid—Producers reported that a fair volume of business continued to hold up in the market. Demand from cresylic resins has been sustained at a good rate. Domestic coaltar acid moved well for this end-use. Sales of imported ADF material were also at a steady level for resins. There was also a consistent amount of cresylic acid moving for tricresyl phosphate production and continued call for the tar acid in aircraft engine cleaners.

A fair volume of petroleum cresylic has been moving to engine cleaner business, especially in the mid-west. Imported ADF acid offered domestic coaltar and petroleum producers keener price competition in the east for this outlet. The general sales level of petroleum cresylic was considered quite good. Inventories were relatively low, but sufficient to take care of current needs without any shortages developing. Price schedules of petroleum acid have been very steady for a long while. Current schedules remained at the same quotations held all through 1953.

No changes have been reported for schedules of coaltar acid or imported ADF material. Prices of the latter were still in the range of 75c. to 90c. per gallon. There was not a great deal of ADF acid being offered in the market, as there was several months back, a source said. Most of the distressed material has disappeared and supplier inventories were not especially high. A number of importers, having none to offer, said they were in good shape. One supplier said that it was sold up in cresylic for the next several months. One explanation of this circumstance was that the shortage of meta fractions in Britain and Europe caused less to be offered here. It was added that call for trixylenol phosphate over there as a gasoline additive was also a part of the picture, which reduced offerings here.

Naphthalene — Demand for domestic

For Late Market Developments, See Page 4

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KOPPERS Coal Chemicals

crude material was virtually unchanged. Buying has not been particularly heavy, but sales have improved slightly since price schedules were reduced to 5c. for crude 78-degree material. Increased production capacity has enabled producers to take care of a much larger volume of business than it has seen for many months.

The recent price cut in domestic schedules has presented strong competition for imported crude naphthalene. Importers stated that there was little activity for hot-pressed material now. There were no offerings from abroad, several sources reported. And consumer interest here was extremely unenthusiastic for two reasons. Price incentive for using imported naphthalene has been greatly diminished by the lowered domestic quotations, especially where overland freight would be involved. Second, the continued threat of an eastern dock tieup brings a risk in having incoming shipments on the water; thereby discouraging buying interest here now.

There has been a slight amount of interest in ball and flake material to be packaged for the coming moth control season, a few sources reported. However, the bulk of activity for this season has not started yet. There was also a small variation in the degree of activity for industrial refined grades of naphthalene with different producers. Some sources felt a slight pickup in industrial refined since the last price cut. While others have not seen any change and still find orders a bit slow. Sales activity varied as much for betanaphthol, an intermediate which is a major outlet for the refined material. Beta moved at a fair pace for consumption in the rubber industry, but dyestuff demand was relatively slow.

Phenol—The market for this material has not materially altered. Some sources report an unchanged sales pace, while others said that activity has picked up slightly. Although an increase in volume was noted for both USP and technical material by various suppliers, there were still ample supplies of phenol for current consumption levels. It was added that buyers remained inclined towards keeping inventories down.

The future outlook for the market does not look too bleak, if activity in the markets for phenolic resins were any indication. Phenol derived resins and adhesives are the primary end-uses for the material. However, stocks held by consumers have been a stumbling block to a greater volume of business in the past several months. Some additional demand could be anticipated as inventories were reduced further and the general level of activity for the end products picks up, as might be anticipated seasonally.

Pyridin—Ample refined 2-degree material was available to fulfill current consumption needs. The amount of material moved by various producers differed slightly. But, no one seemed to be selling very much pyridin right now. A little activity was evident after price schedules were cut to 95c. for l.c.l. quantities.

Consumers were buying whatever they needed for immediate use only. The characteristic pattern of buying several months in advance has long since disappeared. It was added that a number of consumers have installed, or were installing recovery systems, to reclaim pyridin after it is used. Producers were hopeful that the 95c. price of refined material would induce new uses for this versatile tar base.

Toluol—Producers reported that the market for this light oil was unchanged. Government requirements of nitration toluol have been cut back to 50 percent of coaltar output for the first two months of 1954, thus allowing an ample supply of material for civilian consumption. Suppliers presently find the market in balance between production and demand. However, most sources are more concerned with potential developments of the future rather than present market conditions.

Defense buying has accounted for such a large share of the total business over the past few years that producers found that old consumers, who were unable to get enough toluol during the long shortage, had switched operations to use of substitute materials. The extent of cutbacks in arsenal needs will determine how much toluol is going to be available for industrial consumption during the next several months. Most trade sources look for greater availability and the development of keener competition in an effort to get that business back.

Xylol—Producers reported a balanced situation between supply and demand in this market. Demand for xylol has held up fairly well. However, supplies were more available since the pressure has come off aromatics. Consumers were currently able to get all of the xylol they needed for their own production, whereas a few months ago that was not so. Price schedules have remained firm at former quota-

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tions. No revisions were anticipated at this time.

Intermediates

Alphapicoline—No changes have been evident in the market for this tar base. Producers were moving all of their production without any apparent hitches. The market was not considered in short supply, however. Prices were firm at 43½c. per pound in carlots, and 44c. per pound in less than carlots, on a freight equalized basis. No revisions were anticipated at this time.

Asphalt and Tar—The preliminary figures for 1953 indicate that total shipments during the year for asphalt roofing, asphalt sidings, insulated sidings and asphalt board products declined 4 percent, 18 percent, 10 percent and 5 percent respectively, compared with 1952 figures, according to the Bureau of Mines. Shipments of saturated felts, however, exceeded last year's totals by 6 percent. Shipments of all major types of asphalt and roofing tar and siding products for December were lower than the previous month.

The cumulative total (preliminary) for 1953 amounted to 55,687,102 squares of asphalt roofing, compared with 57,937,522 squares shipped in 1952. Shipment of asphalt board products last year totaled 43,856,422 square feet, as against 45,933,249 square feet in the twelve month period prior to that time. Total tonnage of saturated felts was 680,285 tons in 1953, compared with 640,214 tons in 1952. This broke down to 555,363 tons of asphalt in 1953, against 531,112 tons in 1952, while tar shipments were 124,922 tons last year, and 109,102 tons the previous year.

Benzoic Acid—There has been no change in the market for this intermediate. A fairly steady volume of material continued to move to meet demand for use in dyeing of synthetic fibers. However, no significant changes in pace were anticipated. Prices were unchanged and firm. Supplies were adequate for consumer's needs.

Maleic Anhydride—The market for this intermediate was said to be holding its own ground fairly well. Producers said that there has not been much of an increase in activity due to the lowered price schedules. However, more demand was anticipated from polyester resins on that score over a longer period, allowing time for production planning and scheduling of costs. Current supplies of maleic were ample for consumption requirements. Producer schedules, presently at 27c. per pound in carlots, and 28c. per pound in less than carlots, held firm at that level.

Monochlorobenzene — The market for this intermediate was still relatively quiet. Demand for mono for DDT production has not started yet. It was said that the insecticide was enjoying a good export demand. However, production for the domestic season was not expected until later in the quarter, depending on weather conditions and the infestation. Other intermediate uses of mono were about the same, although these outlets only accounted for a small portion of the market.

Orthoanisidin—Demand for this intermediate was slow, as was typical of just about all dyestuff materials. Textile demand fell off in recent weeks and has remained slow. No changes were reported in price schedules. Stocks were ample to meet present consumption requirements.

Orthodichlorobenzene — Supplies of ortho remained tight. Producers continued to move a good volume of material to aircraft engine cleaner business. Production of ortho was limited by the fact that the para isomer was also obtained at the same time. Since paradichlorobenzene has not started into the moth control season yet, there was a limit to which producers held their stocks. Consequently, ortho production is held down at the same time, it was said. Price schedules have held firm at former levels.

Phthalic Anhydride—Several sources stated that the market for this intermediate has shown a slight upswing in activity lately. Sales levels were expected to be a little better in February than they had been last month. However, producers currently have production capacity to take care of a larger volume of business.

Demand from alkyd resins was picking up a bit and could be expected to improve as the spring paint season develops. However, the outlook for industrial finishes, particularly in the automobile industry, was not as solid—in the face of cutbacks in the industry in recent weeks. Buying interest for phthalic from plasticizers has not changed much in recent weeks. Sales here were steady and relatively good, but not too impressive, a source said. The measurement of today's business was on the basis of today's production capacity and thus appeared to be a little slower in general than it really was in comparison to former levels. Activity was rated as slower because producers knew that they could product more than current demand called for.

Leavening Agents Data Published

Suggestions on the proper use of leavening agents in prepared mixes, self-rising flour, doughnuts, and other applications are discussed in a booklet published by Monsanto Chemical Company's inorganic chemicals division, St. Louis, Mo. The history of leavening, the chemical reactions which take place during baking, as well as technical data on Monsanto's full line of leavening agents also are outlined. Copies of the booklet or other technical leavening information may be obtained from the division.

Spencer Polyethylene Plans Bring About 2 Promotions

Two members of the Spencer Chemical Company industrial sales staff, W. H. Millington, jr., and Robert H. Mullett, have been promoted in an expansion program looking toward Spencer's entry into the polyethylene field.

Mr. Millington has been named north-central district sales manager of industrial chemicals. He will supervise activities of the industrial salesmen in that district, and will maintain offices in Chicago.

Mr. Mullett, who has been named industrial sales representative, joined Spencer as a junior salesman in 1950.

He will be transferred to Chicago in the near future, where he will report to Mr. Millington.

Koppers Promotes Reagan, Cambre at Its Kobuta Plant

W. J. Reagan has been promoted from personnel manager to assistant plant manager in charge of production at Koppers Kobuta plant at Monaca, Pa., effective March 1. His former position will be filled by Arden A. Cambre, who was assistant personnel manager. He takes over the position left vacant recently when Frank R. Garner was promoted to manager of the plant. Mr. Reagan joined the company in September, 1948, as a process engineer. Mr. Cambre joined Koppers in October, 1946.

Gen'l Dyestuff Appoints

E. S. Underwood has joined the San Francisco sales office of General Dyestuff Corporation as sales representative for the Antara Chemicals Division of the company. Mr. Underwood was previously associated with Monsanto (Canada), Ltd., and Dominion Tar & Chemical Company, Ltd.

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Textile and Leather Chemicals

There was no improvement to the quiet demand for textile and leather chemicals last week. Consumers continued to operate in a hand to mouth manner. Supplies were ample for most items, except potato starch for immediate shipment from Maine. Flake egg albumen continued weak and prices were sharply reduced in some quarters, while yolk remained steady and unchanged.

Production of potato starch in Maine was practically at a standstill as farmers have withdrawn offers of potatoes pending the outcome of a meeting between a committee of the potato industry and government officials in Washington held late last week to discuss a support program on potatoes. Consuming interest was fairly active, with light business reported for shipment of stocks held in store. Moderate demand was noted for corn starch for immediate delivery. Most of the buying interest for tapioca flour was centered in the Siamese grade and fair volume of business was reported for spot and later delivery. Brazilian and Javanese flours were quiet and more or less nominal. Sago flour moved in small lots on spot, while interest in shipments from primary sources continued inactive.

Tanners were showing more interest in replenishing inventories, but actual purchases continued of light volume and restricted to prompt shipment from primary sources. Prices of tanning material replacements were without change and fairly steady.

Production of man made fibers in the United States during 1953 totaled 1,497,000,000 pounds, an increase of 7 percent over 1952, but slightly under the record output of 1951, according to Textile Oragnon. Viscose and cupra rayon production was up 8½ percent during the year, but acetate was down 3 percent. Non-cellulosic fibers, however, showed a 14 percent gain to reach a new record, despite a sharp decline in staple-tow output in the last half of the year. The production of rayon and acetate in 1953 amounted to 1,196,900,000 pounds, an increase of 5 percent over 1952, but 8 percent under 1951 and 5 percent below 1950. Compared with 1952, the branches of the rayon and acetate industry that did not increase their output in 1953 were acetate yarn, staple and tow. The largest gain was made in viscose high tenacity yarn, which showed a 10 percent increase over 1952. Regular and intermediate tenacity rayon yarn was up 12 percent and rayon staple and tow 3 percent.

Price Trends

Advanced

None

Reduced

Egg albumen, flake, 8c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Feb. 13, 1953
97.87	97.89	97.91	103.09

(For Current Prices see page 9)

Chemicals

Acetic Anhydride—Moderate consuming demand was reported for prompt needs. Prices were quotably unchanged.

Bichromates—Consumers continued to take sizable quantities against current contracts. Market was unchanged and steady. Demand for spot delivery was light and spotty.

Sodium Acetate—Trading was confined to small lots for actual needs. Quotations were without change.

Sulphonated Oils—Higher cost of tallow resulted in a firmer tone in sulphonated grades though prices were unchanged. Other varieties were unchanged. Demand was limited to actual needs.

Sizing Materials

Albumin Blood — Consuming demand continued restricted to actual needs. Stocks were ample. Prices were without change, ranging from 65c. to 90c. per pound, as to quantity.

Corn Dextrin—Conditions in this market remained steady, despite slow demand. All grades were maintained at former levels. Gum was quoted at $8.95 per 100 pounds, paper bags, carlots, New York delivery; canary, $8.69; dark, $8.79, and white, $8.53, same basis. Less carlots were 15c. per 100 pounds higher.

Corn Starch—Demand lacked volume and was confined to immediate delivery. Prices were without change and steady. Pearl was quoted at $7.14 per 100 pounds, paper bags, carlots, and powder, $7.26, same basis. Less carlots were 15c. per 100 pounds more. Visible corn supply declined 840,000 bushels to 33,126,000 bushels for the week ending February 5, compared with 45,159,000 bushels for the corresponding week last year, according to the Chicago Board of Trade.

Egg Albumen—Small lot buying was noted for immediate needs. Prices for flake were further reduced in some quarters and stocks on spot were available at $1.88 to $1.90 per pound, and powder, $1.92 to $1.94 per pound, depending upon seller and quantity. Demand for technical also was light, chiefly for actual needs. Prices were unchanged, ranging from $1.03 to $1.06 per pound, as to quantity and seller.

Egg Yolk—While business was restricted to actual needs, this market remained steady. Stocks on spot were maintained at $1.41 to $1.43 per pound, according to quantity and seller.

Potato Starch—Trading was practically at a standstill last week because buyers and sellers awaited action by the government on support program for potatoes. A meeting between a potato industry committee and government officials was scheduled for February 11-12. Maine grinders quoted 6c. to 6¼c. per pound, carlots, f.o.b. mills, Maine for immediate delivery, with light sales thereat of stocks held in store. Stocks on spot moved in light volume for actual needs. Prices were unchanged and steady at 7¾c. to 8¼c. per pound, ex warehouse, depending upon quantity. Idaho market was unchanged at 6½c. per pound, carlots, f.o.b. mills.

Sago Flour—Demand continued slow. Market was quotably unchanged and fairly steady. Raw flour was quoted at 7¼c. to 7½c. per pound and refined, 8¾c. to 9¼c. per pound, exwarehouse, depending upon quantity. Shipments from abroad were firmer and quoted 6¼c. to 6½c. per pound, carlots, exdock, with buying interest inactive.

Tapioca Flour—Interest in replacements from producing centers was reported slow. Demand was restricted from small to moderate lots for spot delivery. Prices were unchanged and steady for all grades. Brazilian was quoted at 13c. to 15½c. per pound, spot, exwarehouse, according to quantity; Siamese, high grade, 6¾c. to 7¼c. and Java AAA, 7c. to 8c. and AA, 6½c. to 7½c., same basis.

Tanning Materials

Chestnut Extract—Inquiry for later requirements was reported improved, though demand was still quiet. Prices were without change. Liquid 25 percent tannin was quoted at 4¼c. per pound, tankcars, f.o.b. works; 5.10c. per pound, barrels, carlots, and 5.43c. barrels, less carlots; powdered, 10.92c. per pound, bags, carlots and 11.65c., bags, less carlots, same basis.

Cutch—Shipments were unchanged and steady at 8½c. per pound, exdock, plus duty. Offers for shipment were scarce.

Mangrove Bark—Market was quiet, but steady. Shipments were maintained at former levels. African bark was quoted at $72 to $73 per ton exdock; Ecuadorian, $55 per ton, and Colombian, $59 per ton, same basis.

Myrobalans—Trading continued slow. Offers for shipments were maintained at prevailing prices. Assorted JI's were offered at $48 per ton exdock; crushed JI's, $61.50 and ordinary $44 per ton, same basis. Solid extract was held at 7½c. per pound, exdock, plus duty.

Quebracho Extract — Business was spotty, as consumers limited demand to immediate shipment. Prices were unchanged and steady. Solid ordinary was held at 11 31/64c. and clarified at 12 3/16c. per pound, exdock, plus duty.

Valonia—This market was quiet. Tanners showed little interest in replacements. Prices were without change. Beards were quoted at $74 to $75 per ton, exdock, and cups at $54 to $55 per ton, same basis. Extract, 62 percent was unchanged at 9½c. per pound, exdock, plus duty.

Wattle—Consuming inquiry lacked snap. Sales were reported of moderate lots for immediate shipment. All grades were maintained at current levels. Fair average bark was quoted at $100 per ton, and merchantable, $96.50 per ton, exdock. South and East African extracts, 60 percent tannin were offered at 10c. per pound, exdock, plus duty.

For Late Market Developments, See Page 4

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Drugs and Fine Chemicals

Technical carboxymethyl cellulose was reduced 2 cents per pound last week. Affected in this market were the low and medium viscosities. Cocoa butter quotations advanced 6 cents, on spot, last week, in a reversal of a downward price trend which had characterized the market in recent weeks. Supplies continued tight on this commodity and no early alleviation of this situation was expected, it was said. The Department of Agriculture announced the week before last that some 30,000 pounds of surplus butter had been sold at a reduced price to one chocolate manufacturer for experimentation in the use of dairy butter as a substitute for cocoa butter in the manufacture of chocolate products.

Aside from the foregoing, prices were unchanged on all other items in this market. Despite a softening trend in some sections of the trade resulting from the decline in industrial activity, producers exuded confidence that the current price structure would stand for the balance of this quarter. There have been cutbacks in various industries which are expected to be reflected in diminished demand for certain chemicals, however.

Stepped up efforts were noted on the part of producers to sell cautious consumers. There appears to be more buying for immediate needs and less inventory building since many consumers apparently anticipate price reductions, it was said.

The chlorinated solvents, trichloro- and perchloroethylene, were moving in fair volume. With metal degreasing operations showing some slackening, demand for these solvents for these operations was currently smaller, it was noted. Other outlets appeared to be holding on about an even keel. Formaldehyde was moving along, about unchanged. There was hope that plywood operations would be stepped up with the approach of Spring when home construction usually hits its seasonal stride. Consumption of formaldehyde in urea formaldehyde adhesives would be affected favorably, it was said.

Methanol was reported in fairly good demand with prices steady following some downward revisions in drum carlot and less carlots schedules. Supplies were ample for demand, it was noted. Most drug items were moving at a seasonal rate. Vitamins, in particular ascorbic acid and vitamin B_{12}, were said to be finding increasing usage.

Alcohol—The Alcohol and Tobacco Tax Division of the Bureau of Internal Revenue, Treasury Department, on February 11, released data on the supply, production, withdrawals, and stocks of ethyl, completely denatured and specially denatured alcohol during the month of December, 1953, in comparison with December, 1952.

Production

	Gallons 1953	Gallons 1952
†Ethyl	26,311,565	42,181,650
*Completely denatured	39,215	87,992
*Specially denatured	15,109,416	21,830,265
Withdrawals		
†Ethyl, tax paid	961,676	1,448,109
tax free	28,236,439	40,978,411
*Completely denatured	44,619	75,920
*Specially denatured	17,406,165	22,093,391
Stocks		
†Ethyl	54,151,652	83,245,331
*Completely denatured	12,018	37,593
*Specially denatured	6,400,458	8,245,427

*Wine gallons. †Proof gallons.

According to the Alcohol and Tobacco Tax Division, materials used in industrial alcohol plants in December, 1953, and December, 1952, were as follows:—

	Pounds 1953	Pounds 1952
Corn and corn products	4,256,268	165,236
Rye and rye products	.....	.....
Malt and malt products	.....	.....
Wheat and wheat products	.....	.....
Sorghum grain and sorghum grain products	.....	.....
Other grain	.....	.....
Total grain	4,256,268	165,236
Ethylene gas	6,632,036	10,887,680
Other materials	51,550	135,500
	Wine gallons 1953	Wine gallons 1952
Molasses	3,676,423	18,561,668
Ethylene sulphate	14,069,646	16,610,000
Sulphite liquors	21,551,000	20,424,700
Other materials	1,997,700	10,891,166
†Products used in redistillation	3,014,807	1,535,895

†Proof gallons.

Castor Oil—Imports of castor beans and castor oil at New York and Philadelphia were as follows:—

	Pounds Beans	Pounds Oil
Last week	1,019,700	.....
Previous week	936,900	630,000
Corresponding week, 1953	4,430,250	1,408,000
Total this year	16,249,800	2,440,000
Corresponding period, 1953	29,085,300	12,418,450

CMC—Prices were reduced 2c. per pound last week on CMC. Affected were low and medium viscosities. In lots of 23,000 pounds or over, the new price was 39c. per pound. Less than carloads were 41c.

Formaldehyde—Demand for formaldehyde was reported to be moving on an even keel. With a resurgence in home building anticipated this Spring, plywood production rates are expected to mount with an ultimate salutory effect upon consumption of formaldehyde in the formulation of urea-formaldehyde adhesives. The plastics industry continued to account for a significant volume of formaldehyde, it was said. Supplies were adequate for current requirements and expected to continue in the foreseeable future. Prices were firm and unchanged.

The Tariff Commission reported that production of formaldehyde (37 percent by weight) in November, 1953, amounted to 90,057,544 pounds compared to 98,495,412 pounds produced in October.

Gelatin—Production of gelatin in December, 1953, totaled 4,064,710 pounds compared to 3,915,866 pounds in November last year and 3,806,589 pounds produced in December, 1952.

Classified by type, production in December last year included 2,684,471 pounds of edible gelatin, 230,196 pounds of technical grade, 306,097 pounds of pharmaceutical gelatin and 843,946 pounds of photographic grade. Production in November, 1953, aggregated 2,444,018 pounds of edible gelatin, 238,422 pounds of technical grade, 340,059 pounds of pharmaceutical gelatin and 893,367 pounds of photo quality.

Gelatin shipments in December, 1953, amounted to 3,557,743 pounds compared to 3,348,214 pounds in November and 3,722,873 pounds in December, 1952. Classified by type, shipments in December last year included 2,259,072 pounds of edible gelatin, 234,092 pounds technical, 207,487 pounds of pharmaceutical grade and 857,092 pounds photographic quality. Shipments throughout November, in comparison, included 2,185,581 pounds edible gelatin, 210,955 pounds technical grade, 311,772 pounds pharmaceutical quality and 639,906 pounds photographic grade.

Gelatin stocks at the end of December, 1953, totaled 10,413,347 pounds compared to 9,906,380 pounds at the end of November last year and 8,921,371 pounds at the end of December, 1952.

Classified by type, stocks at the end of December, 1953, aggregated 5,479,223 pounds of edible gelatin, 946,229 pounds of technical grade, 899,515 pounds of pharmaceutical gelatin and 3,088,380 pounds of photographic grade. Stocks at the end of November, included 5,053,824 pounds of edible gelatin, 950,125 pounds of technical gelatin, 800,905 pounds of pharmaceutical quality and 3,101,526 pounds of photographic grade. Stocks on hand at the end of December, 1952, amounted to 4,668,833 pounds of edible type, 1,020,314 pounds technical grade, 1,014,628 pounds pharmaceutical quality and 2,217,596 pounds of photo grade.

Glycerin — The market in refined glycerin was steady and prices were unchanged. The crude market was stronger following the sale last week by Argentina of about 500 tons of soaplye crude to France. The price paid was 22.31c. per pound, according to trade reports. On the domestic market soaplye crude was quoted at 21c. while saponification was 23c.

Hexamethylenetetramine — Demand for this compound was reported to be at fair levels. Prices were steady and supplies were adequate for current consumer needs, it was said.

The Tariff Commission reported that production of hexamethylenetetramine ag-

For Late Market Developments, See Page 4

Price Trends

Advanced

Cocoa butter, 6c. per lb.
Glycerin, crude, 1¾c. per lb.

Reduced

CMC, 2c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Feb. 13, 1953
88.14	88.14	88.35	91.28

(*For Current Prices see page 9*)

gregated 3,514,433 pounds in November, 1953, compared to 4,160,944 pounds in October.

Methanol—Demand for synthetic methanol was said to have shown some recent improvement for antifreeze uses as a result of the recent spells of cold weather in various sections of the country. Demand for methanol appeared to be moving at a fairly good pace although some producers were not doing as well as others. Prices were firm on tankcars, there having been some slight downward price adjustments on drum carlot and less than carlot quantities. Supplies were adequate for consumer needs and expected to continue, it was said. The recent coming on stream of additional methanol producing facilities was expected to obviate any supply difficulties for some time.

The Tariff Commission reported that production of synthetic methanol totaled 92,783,801 pounds in November last year compared to 92,570,836 pounds produced during October.

Milk Powder—Terminal markets were barely steady to weak. Offerings were liberal and far in excess of limited open market demand. Sales to the CCC were much heavier this week than last week as dealers attempted to hold stocks to a minimum.

Purchases by the CCC aggregated 14,541,170 pounds of spray process at 16c. and 1,785,680 pounds of roller process at 14c. per pound. These purchases were made in the period from January 28-February 3, 1954.

The market in dry whole milk powder was barely steady. Trading was quiet and offerings were fully ample. Prices were nominally unchanged. Manufacturers' stocks of total nonfat dry milk solids were 75,787,000 pounds at the end of December. These stocks were second only to the record holdings of a year earlier and represent a decline of 41 percent from them, but a gain of 120 percent from the 5-year average for the date. Holdings of spray-dried nonfat milk solids at the end of December were 65,096,000 pounds, a decline of 35 percent from a year earlier but a gain of 161 percent from the December 31 5-year average. Stocks of roller-dried nonfat milk solids were 10,691,000 pounds at the end of the month, a decline of 62 percent from a year earlier, but a gain of 13 percent from the 5-year average for the date.

Nicotinic Acid—Demand for this compound was said to be at fairly steady levels. Supplies were adequate for consumer needs and were expected to continue. Prices were currently $9 to $9.30 per kilo.

The Tariff Commission reported that production of niacin (nicotinic acid) and its amide, totaled 172,691 pounds during November last year compared to 148,737 pounds in October.

Pentaerythritol—Demand for this polyol was reported to be moving at fairly good levels. There has been some easing in some directions, but, on the whole, business was expected to continue on an even keel in the immediate future. Strengthening in the crude glycerin market tends to obviate any downward trends in refined glycerin, it was felt and price-wise, PE was expected to hold unchanged for the balance of the quarter.

The Tariff Commission reported that production of PE totaled 3,779,527 pounds in November, 1953, compared to 4,212,399 pounds in October.

Perchloroethylene—Demand for this chlorinated solvent was reported to be at a fair level. Supplies were ample for current inquiry and expected to continue adequate in the immediate future. Prices were steady.

The Tariff Commission reported that production of perchloroethylene (tetrachloroethylene) totaled 13,801,702 pounds in November, 1953, compared to 12,592,339 pounds produced in October.

Propyleneglycol—Demand for propyleneglycol was reported to be moving at a steady pace. The wide diversity of uses for this polyol has been evident in the lack of seasonal variations in demand, it was noted. Supplies were adequate for current requirements and were expected to continue in the future. Prices were steady.

The Tariff Commission reported that production of propyleneglycol totaled 3,717,218 pounds in November last year compared to 3,299,885 pounds produced in October.

Thiamin—Substantial quantities of this vitamin were going into pharmaceuticals and food products. The fortification of cereals and flours with this B vitamin has been steadily on the increase, it was noted. Prices remained unchanged while supplies were reportedly adequate for consumer requirements.

The Tariff Commission reported that production of thiamin derivatives (B_1) totaled 18,218 pounds in November, 1953, compared to 27,918 pounds turned out in October, 1953.

Trichloroethylene—Demand for this chlorinated olefin was said to be at fairly good levels. There has been easing in demand in some directions since trichloroethylene is used in metal degreasing operations. There has been a curtailment in such operations in the automotive and other industries.

Supplies of trichloroethylene were reported to be adequate to meet demand and expected to continue in the foreseeable future. Prices were unchanged.

The Tariff Commission reported that production of trichloroethylene amounted to 27,665,834 pounds in November last year compared to 30,160,262 pounds in October.

Philadelphia College of Pharmacy Alumni to Fete Retired Professors

The Alumni Association of the Philadelphia College of Pharmacy and Science will honor three retired professors at a mid-winter dinner February 20. Those to be cited are Dr. Horatio C. Wood, jr., Dr. Karl Scholz and Edmund H. MacLaughlin. Dr. Ivor Griffith, president of the college, will introduce the guests. Alumni president Louis Milner will be toastmaster at the dinner, which is to be held in the college auditorium.

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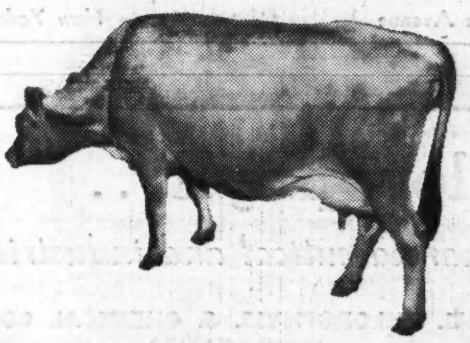

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Shell Chemical Appoints Caddy Norco Plant Mgr.

F. E. Caddy, Shell Chemical Corporation plant manager at Martinez, Calif., has become manager of the company's new plant at Norco, La., and C. H. Plomteaux, of the company's manufacturing operations department at the head office in New York, will be assistant superintendent.

The Norco plant, now being constructed by Fluor Corporation, will produce allyl chloride and chlorohydrins. Its output will be used to increase Shell Chemical's glycerin production by more than 25,000,000 pounds a year, and to make available substantial additional quantities of epichlorohydrin and "Epon" resins. It is the first step in Shell Chemical's current glycerin expansion program.

Mr. Caddy joined Shell in 1931 at Pittsburg, Calif., and served also at Dominguez and Torrance, Calif., while advancing through positions of increasing responsibility. He was appointed plant superintendent at Houston, Tex., in 1948 and became plant manager at Martinez in 1951. Mr. Plomteaux started his Shell career at Pittsburg in 1940 and advanced through various positions while serving also at Cactus, Houston and New York.

AEC Releases Twenty-Six More Patents for Public Use

Descriptions of twenty-six patents owned by the government and held by the Atomic Energy Commission have been transmitted to the Patent Office for registry and listing in the official register of patents.

The commission will grant non-exclusive, royalty-free licenses on the listed patents, as part of its program to make nonsecret technological information available for use by industry. Commission-held patents and patent applications released for licensing now total 640.

Applicants for licenses should apply to the chief, patent branch, office of the general counsel, Atomic Energy Commission, Washington 25, D. C., identifying the subject matter by patent number and title.

PHS Awards Cancer Grants

New support of the expanding search for chemical agents effective in the treatment of cancer is being given through grants-in-aid to scientists in universities and medical centers for research projects, it was announced last week by Surgeon General Leonard A. Scheele of the Public Health Service. The grants are administered by the National Cancer Institute. Dr. Scheele approved eight grants, totaling $704,563, for studies in chemotherapy of leukemia and allied forms of cancer.

Fisher Scientific Company Prints New Edition of Its Chemical Index

Fisher Scientific Company, Pittsburgh, Pa., has announced publication of the new edition of the "Fisher Chemical Index," a 304-page catalog with a listing of 7,344 laboratory chemicals.

Included are:—A comprehensive line of individually lot-analyzed reagents for analysts, metallurgists, clinicians (with all 187 of the reagents for which specifications have been established by the American Chemical Society); bacteriological culture media; fluidextracts, spirits and tinctures; the new Fisher radioactive reagents, and anlytical ion-exchange resins.

According to Richard C. Schleck, director of the Fisher chemical division, the new index can double as "a manual of essential information," since it gives structural formulas, molecular weights, melting points and boiling points for most of the chemicals, and color index numbers for dyes and stains. The index has been assigned catalog number 115-C and is available without charge from Fisher at 717 Forbes street, Pittsburgh, or, in Canada, from Fisher Scientific Company, Ltd., 904 St. James street, Montreal 3, Quebec.

Central Scientific Appoints

Edwin B. Gilroy has been appointed industrial relations manager of Central Scientific Company, Chicago. Mr. Gilroy formerly was assistant personnel director for Blue Cross-Blue Shield. Prior to that he was personnel manager of Precision Scientific Company and for three years was personnel analyst of Commonwealth Edison Company.

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N.Y. AIC Chapter Hears Rhoads at March 4 Dinner

Dr. Cornelius P. Rhoads, director of Sloan-Kettering Institute for Cancer Research, will be the speaker at the annual student award meeting of the New York chapter of the American Institute of Chemists, March 4, at the cafeteria of Union Carbide & Carbon Corporation, New York.

"Rational Cancer Chemotherapy" will be the subject of the talk by Dr. Rhoads, who is also scientific director of Memorial Center for Cancer and Allied Diseases. The other feature of the meeting will be the annual awards to outstanding chemistry students in colleges in the New York city area. These students, chosen by the faculties of chemistry and chemical engineering in the colleges and universities, will be the guests of the New York chapter. Dinner will be served at 6 p.m.

Dufy Reproductions Offered

Merck & Co., Rahway, N. J., is offering full color reproductions of five paintings by Raoul Dufy, the noted French artist. M. Dufy, a sufferer of rheumatoid arthritis, was under treatment with cortisone for three years prior to his death in 1953 at the age of seventy-three. It is estimated that the cortisone treatments added three years to the artist's life, during which time he produced some 200 paintings. As a mark of gratitude to the US medical profession, the artist before his death personally selected five of these paintings for distribution in this country. The Dufy reproductions, 9 x 11 inches, are available from Merck, department FS, Rahway, N. J.

Carbide Announces Changes In Industrial Chemicals Dept.

Recent changes in the industrial chemicals sales organization of Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation, New York, have been announced by W. F. Reich, jr., vice-president.

R. M. Joslin, who was central division sales manager, located in Chicago, has been appointed assistant sales manager for industrial chemicals. Mr. Joslin will assume his duties shortly in the New York office of the company. E. R. Young has been appointed central division sales manager and will supervise the central division from Carbide's offices in Cleveland, Ohio. W. M. Anderson has been appointed district sales manager of the Cleveland district sales office and R. G. Metz has been appointed district sales manager for the Indianapolis, Ind., district sales office.

Research Corp. Grants Near $750,000 in '53

Grants made by Research Corporation, New York, in support of scientific research totalled nearly $750,000 during the fiscal year 1953, according to an announcement by Joseph W. Barker, president of the foundation. In the annual report Dr. Barker called attention to the fact that 252 grants for work in 166 colleges, universities and other institutions were made from October 31, 1952, to October 31, 1953.

The largest single grant of the fiscal year was in the amount of $48,000, made to the University of Denver for high altitude research, particularly in cosmic ray studies, and consisted of the assets, property and facilities located on Mt. Evans, Col., formerly operated by Research Corporation for the work of the Inter-university High Altitude Laboratories.

Atlas Powder Adds Weaver

Atlas Powder Company, Wilmington, Del., has announced that James B. Weaver has been added to the firm's planning department. Mr. Weaver was techno-economist and staff section chief in research for Olin Industries, Inc., for the past four years. Prior to that, he was assistant to the director of research and development for Godfrey L. Cabot, Inc., and a teaching assistant at Massachusetts Institute of Technology.

Trade Briefs

Monsanto Chemical Company, St. Louis, Mo. has announced that its operations at Mound Laboratory, Miamisburg, Ohio, and Trenton, N. J., were winners of the company's president's safety trophies.

Armour Research Foundation of the Illinois Institute of Technology, Chicago, has named Dr. Arnold Miller winner of its award of scientific merit in the chemistry and chemical engineering department.

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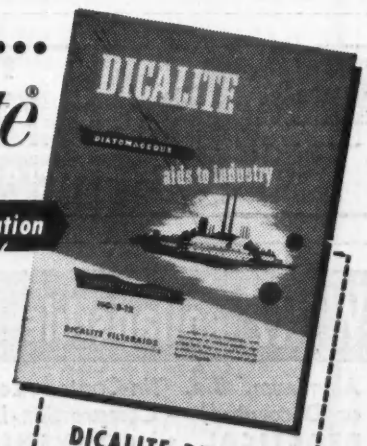

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$HC(OC_2H_5)_3 + CH_2(CN)_2$ (Malononitrile) → $C_2H_5OCH=C(CN)_2 + HCOOC_2H_5$ (Ethoxymethylene Malononitrile)

$HC(OC_2H_5)_3 + CH_3CBrHCOOR + H_2$ (Alpha-Brom-Propionic Ester) → $(C_2H_5O)_2CHCH(CH_3)COOR + C_2H_5OH + HBr$ (Acetal of Formyl-Propionic Ester)

$HC(OC_2H_5)_3 + C_6H_5COCH_3$ (Acetophenone) → $C_6H_5COC_2H_7 + HCOOC_2H_5 + C_2H_5OH$ (Phenyl Propyl Ketone)

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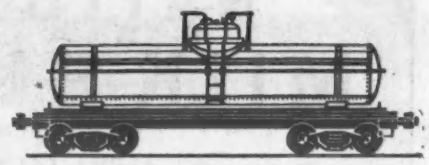

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Chlorophyll Research Project Is Started at Yale University

A two-year search program looking into the basic physiologic properties of chlorophyll and its derivatives has been initiated by Yale University Laboratory of Applied Physiology, New Haven, Conn., in cooperation with the American Chlorophyll Division of Strong Cobb & Co.

Dr. Leon A. Greenberg, associate director of the laboratory, in outlining the project, stated that the "similarity in structure and biologic function between chlorophyll and hematin has been a matter of classical scientific comment. Both pigments make possible the production of energy in the living plant and animal, respectively."

"In this sense," he added, "chlorophyll is the blood substance of the plant. Our new research program will probe a number of the possible metabolic and respiratory functions it may exercise in the animal body."

Michigan Chemical Names Wyandotte DDT Distributor

Michigan Chemical Corporation, St. Louis, Mich., has appointed Wyandotte Chemicals Corporation, Wyandotte, Mich., as its exclusive distributor of "Pestmaster" technical grade DDT in the United States, Hawaii, Puerto Rico and Alaska. Michigan Chemical will continue distribution of its "Pestmaster" DDT formulations in the same areas, as well as technical DDT and formulations for export, Theodore Marvin, president, stated.

According to the Michigan Chemical announcement, the new arrangement provides Wyandotte Chemicals with an important source of quality DDT and rounds out its series of agricultural products, which now includes wetting agents, solvents, fumigants, emulsifiers and soil conditioners. These products are under the sales direction of Charles F. Gerlach, sales manager, inorganic and agricultural chemicals, at Wyandotte.

Buffalo Drug Club Elects

The Greater Buffalo Drug Club, Buffalo, N. Y., has elected Howard G. Carpenter president. Others elected were:—Vice-president, Jerome F. Helfert; secretary, William A. Brink; treasurer, Robert A. Fitch; directors, Joseph H. Woldman, Joseph T. Collins, Harold H. Beeler, James E. Nevin, Charles C. Barber, Alexander J. Kovach, James J. Herzog and Frank E. Kelly.

Eli Lilly & Co. Appoints Zemlick As Coordinator of Merchandising

Eli Lilly & Co., Indianapolis, Ind., has appointed Joseph F. Zemlick, coordinator of merchandising design and production. In the newly-created post, Mr. Zemlick will be responsible for the over-all direction of Lilly advertising, including design, scheduling, budgeting and purchasing .

Kodak Planning Expansion

Eastman Kodak Company, Rochester, N. Y., has revealed that it has $50,000,000 earmarked this year to improve and expand company plants, equipment, methods and process in its US manufacturing and branch units. This amount is 25 percent more than the company's capital expenditure budget of $40,000,000 for 1953. About $300,000,000 has been used for the improvement and expansion program since 1945, company officials stated. The program has been financed on a pay-as-you-go basis from company funds without resort to borrowing, they said.

Drug Group Elects Olds

The Allied Drug and Chemical Association of Michigan has elected Stanley L. Olds of Magnus, Mabee & Reynard, Inc., New York, president of the organization. Mr. Olds is midwestern representative for MM& R and covers the states of Michigan and Ohio for the firm.

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Parke-Davis Field Manager Positions Go to Eich, Dilger

Parke-Davis & Co., Detroit, Mich., has named Benjamin J. Eich field manager of its New Oorleans branch and J. C. Dilger field manager of its Chicago branch. Mr. Eich will maintain headquarters in Birmingham, Ala., and will serve under J. B. Williams, New Orleans branch manager. He joined Parke-Davis in 1942 and served as sales and medical service representative with headquarters in Anniston, Ala., until 1946, when he was transferred to Birmingham. Mr. Dilger joined Parke-Davis in 1950 as hospital salesman in Chicago. His new sales territory comprises parts of Iowa and Illinois.

Enjay Labs Adds Two In Technical Sales Posts

Standard Oil Development Company, Linden, N.J., has added Elfreid F. H. Pennekamp and Harold J. Rose to the staff of its new Enjay Laboratories Division. Mr. Pennekamp, who was a section head in the company's research division, will have responsibility for the technical sales service activities in the field of the company's additives. He has been with Standard Oil since 1943.

Mr. Rose will be in charge of technical sales service work on alcohols and other chemicals. He was formerly a section head in the laboratories of Esso Standard Oil Company, Baton Rouge, La. He joined the Louisiana division of Esso in 1942.

Ansul Names Christianson Fine Chemicals Dept. Head

Ansul Chemical Company, Marinette, Wis., has named Tom Christianson pilot plant manager and head of its fine chemicals department. Mr. Christianson, who has been with the company since 1945, formerly was assistant production manager in the chemical division.

He was instrumental in the design and engineering of Ansul's new fine chemicals plant, which went into operation last year producing a series of glycol ethers, ethers of hydroquinone and synthetic pyridins.

Hoffman-Taff Picks Rundell

James E. Rundell, for twenty-three years manager of the development laboratories for Abbott Laboratories, North Chicago, Ill., has been named to the newly created post of director of research and development for Hoffman-Taff, Inc., and its subsidiary, Hoffman Laboratories, Inc., both of Springfield, Mo. Hoffman is a producer of choline salts.

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- TARTRONALDEHYDIC ACID
- TELLURIUM TETRABROMIDE
- TELLURIUM TETRACHLORIDE
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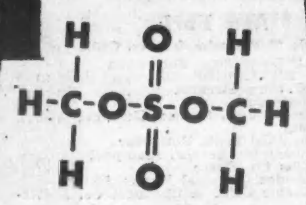

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New York

AGAR—21 bbls, T M Duche & Sons, Cadiz
ALPHAPICOLINE—40 dms, Rotterdam
AMMONIUM BIFLUORIDE—60 cks, Interstate Chemical Corp, Bremen
51 cks, Rotterdam
ANILIN DYES—55 dms, Sandoz Chemical Works, Rotterdam
4 dms, Chemical Bank, Rotterdam
19 dms, Heemsoth Kerner, Liverpool
43 dms, Ciba Co, Havre
34 dms, Sandoz Chemical Works, Havre
20 dms, Carbic Color & Chemical Co, Rotterdam
90 dms, Geigy Co, Rotterdam
37 dms, Hensel Bruckmann & Lorbacher, Hamburg
14 dms, Rotterdam
ANISE SEED—100 bgs, Malaga
ANTIMONY OXIDE—20 bgs, European Chemical Co, Hamburg
REGULUS—17 cks, Intercontinental Metal Corp, Hamburg
ARGOLS—1,106 bgs, Tartaric Raw Materials, Marseille
ARSENIC, WHITE—92 bbls, American Smelting & Refining Co, Tampico
BEESWAX—18 bgs, Irving Trust Co, Ciudad Trujillo
15 bgs, Irving Trust Co, Puerto Plata
51 bls, Colonial Trust Co, Lisbon
38 bgs, General Import Distributors, Havana
100 pkgs, Lisbon
73 bgs, Havana
BEET PULP—2,400 bgs, Internatio Rotterdam, Rotterdam
BETANAPHTHOL — 187 bgs, General Aniline Works, Hamburg
BISMUTH METAL—156 bxs, Tampico
BONE—344 bgs, Bank of New South Wales, Brisbane
BRUCINE—5 cs, Lo Curto & Funk, Glasgow
CALCIUM CARBONATE — 200 bgs, J T Baker Chemical Co, London
CAMPHOR POWDER—200 cs, Irving Trust Co, Kobe
CAPROLACTAM—10 cs, N A Rayon Corp, Bremen
CARAWAY SEED—100 bgs, R J Spitz, Rotterdam
CARDAMOM—22 cs, Karl H Landes & E Balint, Colombo
25 cs, Wm E Martin, Bombay
CARNAUBA WAX—555 bgs, Wax & Rosin Products, Fortaleza
55 bgs, River Plate Corp, Fortaleza
55 bgs, World Commerce Corp, Fortaleza
250 bgs, W R Grace & Co, Parnahiba
93 bgs, Frank B Ross, Parnahiba
75 bgs, J W Hanson, Parnahiba
250 bgs, F J Henjes, Parnahiba
126 bgs, J H Schroder, Parnahiba
125 bgs, Smith & Nicols, Parnahiba
25 bgs, Cornelius Products Co, Parnahiba
414 bgs, Parnahiba
CASEIN—1,500 bgs, Paul A Dunkel, Buenos Aires
36 bgs, G Jimenez Corp, Ponta Delgada
2,000 bgs, Buenos Aires
CASHEWNUT SHELL LIQUID—1,000 dms, Irvington Varnish & Insulator Co, Fortaleza
CASSIA—278 bls, A G Dunn, Rotterdam
280 bls, J Berlage, Rotterdam
106 bls, Otto Gerdau, Rotterdam
84 bls, Chase National Bank, Rotterdam
337 bls, Rotterdam
CASTOR BEANS—2,800 bgs, Spencer Kellogg, Manta
680 bgs, Mfrs Trust Co, Manta
2,018 bgs, Baker Castor Oil Co, Manta
OIL—1,300 bgs, Baker Castor Oil Co, Guayaquil
CELERY SEED—49 bgs, L A Champon & Co, Marseille
CINNAMON LEAF OIL—4 dms, Volkart Bros, Colombo
CITRONELLA OIL—10 dms, S W Kung, Keelung
25 dms, Hyeton Corp, Keelung
17 dms, Volkart Bros, Colombo
COALTAR DYES—1 dm, Nova Chemical Corp, Hamburg
2 dms, Hensel Bruckmann & Lorbacher, Bremen
21 bbls, Caldwell & Co, Antwerp
6 cks, Hensel Bruckmann & Lorbacher, Rotterdam
COCHINEAL—12 bgs, Callao
COCONUT OIL—674 tons, Pacific Vegetable Oil Corp, Manila
COD OIL—105 dms, Fidelity Union Trust Co, Kristiansund
LIVER OIL—33 bbls, Arista Oil Products Co, Kristiansund
35 dms, Arista Oil Products Co, Kristiansund
50 dms, Copenhagen
COTTON LINTERS—178 bls, Cowa Trading Co, Rio de Janeiro
118 bls, New England Waste Co, Santos
262 bls, Norton & Ellis, Santos
93 bls, Chase National Bank, Recife
CREAM OF TARTAR—50 bbls, Barcelona
CUMIN SEED—200 bgs, General Foreign Sales Corp, Rotterdam
CUTTLEFISH BONE—600 cs, La Goulette
DAMMAR GUM—320 bgs, S Winterbourne & Co, Singapore
70 bgs, Internatio Rotterdam, Singapore
50 cs, O G Innes Corp, Bangkok
1 bg, O G Innes Corp, Bangkok
DEXTRIN—1,900 bgs, Stein, Hall & Co, Rotterdam
500 bgs, National Starch Products, Rotterdam
275 bgs, Manhattan Paste & Glue Co, Rotterdam
525 bgs, Rotterdam
EARTH COLORS—45 cks, Interocean Chemical & Minerals Corp, Rotterdam
400 bgs, Smith Chemical & Color Co, Bremen
EUCALYPTUS OIL—16 dms, American Trust Co, Tarragona
10 dms, Lo Curto & Funk, Kobe
FENNEL SEED—98 bgs, Fuerst Bros, Bombay
FISHLIVER OIL—4 dms, Albumina Supply Co, Yokohama
6 dms, Ovimpex Inc, Yokohama
FUEL OIL—390,000 bbls, Esso Standard Oil Co, Aruba
105,841 bbls, Esso Standard Oil Co, Caripito
198,000 bbls, Esso Export Corp, Aruba
92,374 bbls, New England Petroleum Co, Punta Cardon
104,202 bbls, Hess Inc, Punta Cardon
117,941 bbls, Hess Inc, Curacao
19,442 tons, Shell Oil Co, Curacao
215,825 bbls, Paragon Oil Co, Tampico
10,000 bls, Asiatic Petroleum Corp, Curacao
GELATIN—40 bgs, Coignet Chemical Co, Antwerp
30 bls, Coignet Chemical Co, Antwerp
36 bbls, Coignet Chemical Co, Antwerp
173 bgs, Antwerp
100 dms, Jung Forwarding Co, London
GERANIUM OIL—1 dm, International Expediters, Marseilles
6 dms, Givaudan Corp, Marseilles
1 dm, Roubechez Inc, Havre
3 cs, Magnus, Mabee & Reynard, Alexandria
GLUESOCK—142 bls, Karr Ellis & Co, Liverpool
GYPSUM—9,967 tons, U S Gypsum Co, Hantsport
350 bgs, Whittaker, Clark & Daniels, Liverpool
HYDROXYCYCLOHEXYL HYDROPEROXIDE — 15 kgs, Celanese Corp of America, Rotterdam
IPECAC ROOT—10 bgs, National City Bank, Cristobal
13 bgs, Meer Corp, Cristobal
IRON BLUES—34 dms, Van Oppen & Co, Liverpool
2 bbls, Van Oppen & Co, Liverpool
IRON OXIDE—100 bbls, Whittaker, Clark & Daniels, Malaga
KARAYA GUM—122 bgs, S B Penick & Co, Bombay
430 bgs, Morningstar Nicol, Bombay
184 bgs, Paul A Dunkel, Bombay
34 bgs, Tragacanth Importing Co, Bombay
123 bgs, Thurston & Braidich, Bombay
LEMON OIL—1 dm, W J Bush & Co, Buenos Aires
8 cs, Givaudan Corp, Naples
LIVERMEAL—550 bgs, N A Grain & Feed Corp, Buenos Aires
LOCUST BEAN—508 bgs, Kuypers Ostler & Scott, Algiers
180 bgs, Commercial Bank of Greece, Piraeus
200 cs, N Calabrese, Naples
100 bgs, Larnaca
GUM—800 bgs, Morningstar Nicol, Piraeus
150 bgs, Morningstar Nicol, Genoa
910 bgs, J L Quesada, Valencia
1,001 bgs, Bankers Trust Co, Piraeus
110 bgs, Rotterdam
LOGWOOD EXTRACT—4 cks, American Dyewood Co, Liverpool
MACE—21 cs, J Berlage, Rotterdam
8 cs, Knickerbocker Mills, Rotterdam
MAGNESIUM CARBONATE—60 cs, Hanover Bank, Liverpool
SILICATE—50 cks, Aceto Chemical Co, London
SULPHATE—2,000 bgs, Sterling Chemical Corp,
MANGANESE ORE—224 bgs, Union Carbide & Carbon Corp, London
MANGROVE EXTRACT—1,800 bgs, Saxe Cutch Corp, Sandakan
MENTHOL—150 cs, Paul A Dunkel, Santos
MERCURIC OXIDE, YELLOW—10 dms, European Chemical Co, Bombay
MILK SUGAR—500 bgs, Southampton
MINERAL WAX—5 bgs, Manufacturers Trust Co, Bremen
MOLASSES—450 tons, W R Grace & Co, Salaverry
10,659 tons, Chas Pfizer & Co, Havre
MONOSODIUM GLUTAMATE—50 cs, Universal Sales Co, Yokohama
MONTAN WAX—1,320 bgs, Strohmeyer & Arpe, Hamburg
300 bgs, Wax & Rosin Products, Bremen
MUSTARD SEED—572 bgs, R S French Co, Copenhagen
MYROBALANS—1,436 bgs, Olson Sales Agency, Vizagapatam
NAPHTHALENE—1,280 bgs, Rotterdam
NAPHTHENIC ACID—2,994 bbls, Esso Standard Oil Co, Aruba
NAPHTHOL—2 dms, Hensel Bruckmann & Lorbacher, Rotterdam
5 dms, C A Haynes, Hamburg
NICKEL CHLORIDE—8 cks, Atlantic Bank of N Y, Rotterdam
4 cks, M W Hardy & Co, Copenhagen
SULPHATE—5 cs, Atlantic Bank of N Y, Hamburg
60 cs, Golwynne Chemical Corp, Genoa
40 bls, Rotterdam
20 cks, Chemical Sales & Service Co, Bremen
NUTMEG—114 bgs, D Hauser, Rotterdam
OCOTEA CYMBARUM—32 dms, Stein Hall & Co, Itajai
OLIVE OIL—100 dms, B Filippone & Co, Pireaus
100 dms, Uddo & Taormina Co, Piraeus
106 dms, J Ossola, Pireaus
100 dms, Manufacturers Trust Co, Piraeus
22 dms, National City Bank, Piraeus
100 bbls, J Weber, Marseille
100 dms, Old Monk Olive Oil Co, Marseille
71 dms, National City Bank, Malaga
200 dms, Credit Suisse, Tarragona
25 dms, National City Bank, Tarragona
ORANGE OIL—2 dms, Citrus & Allied Essential Oils Co, Puerto Plata
PALMAROSA OIL—3 dms, George Lueders & Co, Bombay
1 pot, Olson Sales Agency, Bombay
PAPRIKA—100 bgs, A A Sayia & Co, Alicante
100 bgs, Gallagher & Ascher, Alicante
415 bgs, M A Parazzi Co, Alicante
200 bgs, Rijeka
200 bgs, Alicante
PEATMOSS—2,500 bls, J E Bernard, Bremen
1,000 bls, State Export Co, Bremen
3,000 bls, Atkins & Durbrow, Bremen
950 bls, E Dunwoody, Bremen
1,000 bls, E J Lang, Bremen
2,000 bls, Lion Trading Co, Bremen
3,625 bls, Premier Peatmoss Corp, Bremen
1,300 bls, J E Bernard, Hamburg
PECTIN—32 kgs, Jafbro Corp, Copenhagen
PEPPER, BLACK—80 bgs, Boukouris & Co, Cochin
80 bgs, Guaranty Trust Co, Cochin
80 bgs, C Czarinkow, Cochin
80 bgs, States Grain Corp, Cochin
100 bgs, Joensson & Cross, Bombay
35 bgs, Internatio Rotterdam, Singapore
35 bgs, Balfour Guthrie, Singapore
70 bgs, J Berlage, Singapore
315 bgs, Joensson & Cross, Singapore
35 bgs, A C Israel, Singapore
35 bgs, Otto Gerdau, Singapore
245 bgs, Borneo Sumatra Trading Co, Singapore
70 bgs, Polak Trading Co, Singapore
40 bgs, Indoscan Corp, Cochin
120 bgs, Mincing Trading Corp, Cochin
20 bgs, Cochin
70 bgs, Singapore
RED—276 bgs, Dogu Trading Co, Iskenderun
200 bgs, Becker Mayer Seed Co, Iskenderun
20 bgs, Manufacturers Trust Co, Istanbul
20 bgs, Istanbul
WHITE—112 bgs, Joensson & Cross, Singapore
230 bgs, Internatio Rotterdam, Singapore
80 bgs, Catz American Co, Singapore
80 bgs, Borneo Sumatra Trading Co, Singapore
35 bgs, Balfour Guthrie, Singapore
42 bgs, Singapore
PEPPERMINT LEAVES—20 cs, Meer Corp, Hamburg
75 bgs, Meer Corp, Hamburg
PETITGRAIN OIL—54 dms, Tan American Corp, Buenos Aires
1 cs, Antoine Chiris, Port Au Prince
PETROLEUM, CRUDE — 193,965 bbls, Phillips Petroleum Co, Puerto La Cruz
74,649 bbls, Cities Service Oil Co, Amuay Bay
107,622 bbls, Esso Standard Oil Co, Cartagena
200,000 bbls, Esso Standard Oil Co, Puerto La Cruz
POLLACKLIVER OIL—50 dms, Consumers Import Co, Yokohama
POLYVINYL ACETATE EMULSIONS—25 bbls, Bremen
RESIN—19 dms, Terra Chemicals Inc, Bremen
CHLORIDE—4,200 bgs, Naples
POPPY SEED—350 bgs, Louis Furth, Rotterdam
150 bgs, Levy & Levis Co, Rotterdam
POTASSIUM CYANIDE—100 dms, Rotterdam
40 dms, Liverpool
POTATO FLOUR—896 bgs, National Starch Products, Rotterdam
PSYLLIUM SEED—482 bgs, S B Penick & Co, Bombay
72 bgs, Wm M Allison & Co, Bombay
441 bgs, T M Duche & Sons, Bombay
QUEBRACHO EXTRACT—4,283 bgs, Tanimex Corp, Buenos Aires
2,968 bgs, River Plate Corp, Buenos Aires
QUICKSILVER—58 flks, G Jimenez Corp, Vera Cruz
150 flks, Chase National Bank, Tampico
47 flks, G Jimenez Corp, Tampico
250 btls, Lo Curto & Funk, Genoa
QUINCE SEED—34 bgs, Meer Corp, Bombay
159 bgs, Rotterdam
RICE STARCH—100 bgs, Stein Hall & Co, Alexandria
100 bgs, American Key Products, Trieste
RUTIN—3 dms, Millmaster Chemical Corp, Melbourne
1 dm, B L Lemke & Co, Melbourne
SAGE LEAVES—9 bls, T G Sofos, Piraeus
SARSAPARILLA ROOT—22 bls, Tampico
SASSAFRASS OIL, ARTIFICIAL—25 dms, Lo Curto & Funk, Kobe
SEEDLAC—500 bgs, Borneo Sumatra Trading Co, Bangkok
250 bgs, United Baltic Corp, Bangkok
750 bgs, Gillespie-Rogers-Pyatt, Bangkok
200 bgs, J S Chawla, Bangkok
1,524 bgs, East Asiatic Co, Bangkok
250 bgs, Commercial Alcohols Ltd, Bangkok
250 bgs, United Shellac Corp, Bangkok
100 bgs, Mac Lac Co, Calcutta
250 bgs, Tradesman Bank, Bangkok
250 bgs, J H Ross, Bangkok
250 bgs, Sino Java Inc, Bangkok
550 bgs, Capitol Shellac Corp, Bangkok
250 bgs, Mantrose Corp, Bangkok
SHARKLIVER OIL—100 dms, Consumers Import Co, Yokohama
11 dms, Ocean Leather Corp, Havana
150 dms, Arista Oil Products Co, Yokohama
15 dms, Collett Week Nibecker, Keelung
SHELLAC—200 bgs, Dings & Schuster, Calcutta
31 bgs, Dings & Schuster, Bremen
50 bgs, Mac Lac Co, Bangkok
BLEACHED—30 dms, Bank of London & S A, Liverpool
SOAPBARK—247 bls, S B Penick & Co, Valparaiso
SODIUM BICARBONATE—230 bgs, Chemical Manufacturing Co, Liverpool
CYANIDE—360 dms, Chemical Manufacturing Co, Liverpool
125 dms, American Cyanamid Co, Liverpool
125 dms, American Cyanamid Co, Middlesbrough
SODIUM PERBORATE—1,000 bgs, Naples
SPERMACETI WAX—100 ctns, Glasgow
STARCH—20 bgs, Morningstar Nicol, Rotterdam
2,000 bgs, Alltransport Inc, Rotterdam
20 bgs, Rotterdam
STICKLAC—1 cs, East Asiatic Co, Bangkok
SULPHUR, PRECIPITATED—30 bbls, Liverpool
TALC—7,630 bgs, Charles Mathieu, Genoa
TAPIOCA—112 bgs, Internatio Rotterdam, Tjirebon
FLOUR—250 bgs, Geismar & Co, Bangkok
250 bgs, First National Boston, Bangkok
350 bgs, American Key Products, Bangkok
2,500 bgs, Stein Hall & Co, Bangkok
210 bgs, Stein Hall & Co, Singapore
TARTAR—760 bgs, Tartaric Raw Materials, Algiers
TETRAALKYLTHIOPHOSPHATE — 21 cbys, Plant Products Corp, Rotterdam
TITANIUM ALUMINUM—15 dms, C Tennant Sons & Co, London
TONKA BEANS—40 bbls, S B Penick & Co, Belem-Para
TRAGACANTH GUM—81 cs, M N Hakkak & Co, Rotterdam
TRICHLOROETHYLENE—179 dms, Chemical Bank, Venice
75 dms, Amplex Chemical Co, Leghorn
500 dms, Venice
UREA—182 bgs, Terra Chemicals Inc, Rotterdam
1,200 bgs, Nylos Trading Co, Genoa
VALERIAN ROOT—120 bgs, S B Penick & Co, Bombay
VALONIA CUPS—3,800 bgs, Barkey Importing Co, Izmir
VANILLA BEANS—24 cs, Chase National Bank, Havre
22 bgs, P Damman, Marseille
9 cs, Thurston & Braidich, Marseille
11 cs, F Hubert & Co, Marseille
POWDER—13 cs, Zink & Trieste, Marseille
WHITING—1,200 bgs, Hammill & Gillespie, Hull
1,400 bgs, Smith Chemical & Color Co, Hull
WITHERITE—56 tons, E I Dupont De Nemours & Co, Middlesbrough
WOOL GREASE—112 dms, Lenape Trading Co, Genoa
166 dms, J J Gavin, Genoa
54 dms, Bank of N Y, Melbourne
28 dms, National Bank of Australasia, Melbourne
51 dms, J J Gavin, Antwerp
100 dms, Hummel Chemical Co, Bremen
50 dms, Gallard Schlesinger, Bremen
26 dms, Liverpool
ZIRCON SAND—8,000 bgs, International Titanium Corp, Brisbane

Baltimore

EARTH COLORS—896 bgs, American Chemical & Pigment Corp, Rotterdam
PEATMOSS—1,200 bls, J S Connor, Bremen
PEPPER, BLACK—35 bgs, Baltimore Spice Co, Singapore
TAPIOCA FLOUR—470 bgs, First National Boston, Bangkok

Boston

CHESTNUT EXTRACT—320 bgs, Barkey Importing Co, Genoa
COTTON LINTERS—73 bls, Volkart Bros, Callao
76 bls, Wenalance Co, Callao
GLUE—40 bgs, D C Andrews, London
OLIVE OIL—52 dms, Second National Boston, Malaga
PEATMOSS—287 bls, Seaplant Chemical Corp, Havre
POTASSIUM CYANIDE—200 cks, C Hardy & Co, Havre
TALC—230 bgs, Charles Mathieu, Genoa

Houston

CINNAMON QUILLS—80 bls, Volkart Bros, Colombo
100 bls, Gillespie & Co, Colombo

Los Angeles

CARAWAY SEED—50 bgs, Hismoco American Co, Rotterdam
CASEIN—300 bgs, City Bank of New York City, Buenos Aires
300 bgs, Borden Co, Buenos Aires
CHILLIES—100 bgs, S L Jones & Co, Kobe
50 bgs, The Metro Trading Co, Inc, Kobe
40 bgs, The Unasia Corp, Yokohama
COPAL GUM—39 bkts, O G Innes Corp, Djakarta
COPRA—484 long tons, Procter & Gamble Co, Nasipit
813.45 long tons, Procter & Gamble Co, Jolo
500 long tons, American Trust Co, Legaspi
500 long tons, American Trust Co, Tabaco
500 long ton, American Trust Co, Cebu
500 long tons, American Trust Co, Siain
CAKE—4,240 bgs, Pacific Vegetable Oil Corp, Manila
13,440 bgs, Wilbur Ellis Co, Manila
8,800 bgs, Balfour Guthrie & Co, Cebu
CUMIN SEED—50 bgs, Funch Edge & Co, Rotterdam
CUTTLEFISH BONE—200 cs, Seed & Feeding Corp, Genoa
EARTH COLOUR—1,125 bgs, F D Davis Co, Rotterdam
100 bgs, F D Davis Co, Genoa
FISHLIVER OIL—20 dms, Albumina Supply Co, Yokohama
FISHMEAL—1,087 bgs, Wessel Duval & Co, Chimbote
3,312 bgs, Bahia
OLIVE OIL—50 dms, F & M Importing Co, Malaga
25 dms, L A Importing Co, Malaga
75 dms, Tama Trading Co, Malaga
PEATMOSS—300 bls, W R Grace & Co, Bremen
1,500 bls, H V Nootbaar & Co, Bremen
250 bls, Consolidated Shippers of U S A, Bremen
500 bls, Bremen
300 bls, Lastreto Phillips Commercial Co, Rotterdam
POLLACKLIVER OIL—100 dms, Frank P Dow Co, Yokohama
50 dms, Frank P Dow Co, Otaru
POPPY SEED—50 bgs, Hismoco American Co, Rotterdam
QUEBRACHO EXTRACT—1,000 bgs, International Products Corp, Buenos Aires
984 bgs, River Plate Corp, Buenos Aires
SESAME SEED—250 bgs, Bank of Calif National Association, Corinto
SHARKLIVER OIL—50 dms, Fuji Shoji Kaisha American Corp, Otaru
SEEDLAC—169 bgs, H M Newhall & Co, Bangkok
TAPIOCA FLOUR—500 bgs, Stein Hall & Co Inc, Bangkok
THYME LEAVES—18 bgs, Hismoco American Co, Marseille
UREA—4,000 bgs, Venice
11,000 bgs, Wilson & Geo Meyer & Co, Heroya

New Orleans

TAPIOCA FLOUR—1,500 bgs, Stein Hall & Co, Bangkok

Newport News

PEATMOSS—400 bls, W M Stone & Co, Bremen

Norfolk

PEATMOSS—2,400 bls, W M Stone & Co, Bremen

Philadelphia

AMMONIUM PERSULPHATE—10 dms, Rohm & Haas, Rotterdam
ANTIMONY OXIDE—300 bgs, Harshaw Chemical Co, Manchester
BEET PULP—2,605 bgs, N American Co, Rotterdam
5,564 bgs, Rotterdam
FERRIC CHLORIDE — 92 dms, Corn Exchange Bank, Bremen
FISHLIVER OIL—100 dms, Corn Exchange Bank, Yokohama
FUEL OIL—101,000 bbls, Esso Export Corp, Aruba
MAGNESITE—5,000 bgs, First National Cincinnati, Rijeka
1,995 tons, Rijeka
10 tons, Split
MOLASSES—405,907 gals, Guantanamo
NAPHTHALENE—7,778 bgs, Barrett Division, Rotterdam
PEATMOSS—2,395 bls, Bank of Manhattan Co, Bremen
1,300 bls, Bremen
PETROLEUM, CRUDE—25,246 tons, Socony Vacuum Oil Co, Mena Al Ahmadi
205,502 bbls, Socony Vacuum Oil Co, Mena Al Ahmadi
120,000 bbls, Socony Vacuum Oil Co, Puerto La Cruz
227,973 bbls, Gulf Oil Corp, Mena Al Ahmadi
414,896 bbls, Gulf Oil Corp, Puerto La Cruz
218,016 bbls, Gulf Oil Corp, Las Piedras
304,142 bbls, Atlantic Refining Co, Puerto La Cruz
229,060 bbls, Atlantic Refining Co, Pamatacual
133,000 bbls, California Oil Co, Sidon
164,192 bbls, The Texas Co, Sidon
VANILLA BEANS—68 bxs, Tampico
WHITING—63 tons, Antwerp

San Francisco

CALCIUM FORMATE—313 bgs, C M C Chemicals, Glasgow
COPRA—500 tons, Pacific Vegetable Oil Corp, Manila
500 tons, American Trust Co, Cebu
500 tons, American Trust Co, Legaspi
500 tons, Bank of California, Hondagua
500 tons, Bank of California, Siain
CAKE—4,400 bgs, Balfour Guthrie, Cebu
FISHLIVER OIL—35 dms, Wilbur Ellis Co, Yokohama
JUNIPER BERRIES—5 bgs, Bank of America, Leghorn
MONOSODIUM GLUTAMATE—50 cs, Universal Sales Co, Yokohama
ORRIS ROOT—4 bgs, Bank of America, Leghorn
PAPRIKA—50 bgs, A A Savia & Co, Marseille
75 bgs, W L Willner Co, Marseille
PEPPER, BLACK—80 bgs, Mincing Trading Corp, Cochin
40 bgs, Nederlandsche Handel, Cochin
80 bgs, Boukouris & Co, Cochin
PETROLEUM, CRUDE—228,156 bbls, Tide Water Assoc Oil Co, Sungai Pakning
210,596 bbls, Standard Oil Co, Sungai Pakning
QUEBRACHO EXTRACT—1,800 bgs, International Products Corp, Buenos Aires

Bids Wanted

Caustic soda, 50,000 gals. (sodium hydroxide) 50% aqueous solution, inv. 198, Feb. 18, Chem. Corps Research Procurement Agency, Army Chem. Center, Md.

Gas, 40 cyls., acetylene, inv. 10, Feb. 23, Purchasing & Contracting Officer, Augusta Arsenal, Augusta, Ga.

Herbicide, 925 gals., 2,4,5-tri-chlorophenoxy-acetate acid, solution, for use as a bramble and wood plant killer, Newark, inv. NY-3J-53547, Feb. 23, Gen. Services Adm., Federal Supply Service, P. O. B. 39, Canal St. Station, N. Y. 13, N. Y.

Insecticide, 3,720 DDT aerosol bombs, inv. 2B-40664-R, Mar. 2, Gen. Services Adm., Region 3, Business Service Center, 7th & D Sts., S.W., Washington 25, D. C.

Mercury, 5,428 bots., inv. 165B, Feb. 19, Armed Services Medical Procurement Agency, 84 Sands St., Bklyn., N. Y.

Paint, 444 gals. tint base, inv. DA-34030, Feb. 23, Gen. Services Adm., Business Service Center, 1114 Commerce St., Dallas, Tex.; 100 gals. enamel, wrinkle, baking, 24 gals. same, 215 gals. lacquer, spraying, gloss, Avon, Ky., inv. SC-158, Mar. 3, Lexington Signal Depot, Lexington, Ky.

Steel Shipping Barrels Output In December Above That of Nov.

December production of steel shipping barrels and drums, on an average working-day basis, was up 6 percent above that of November but down from the total for December, 1952, according to the Bureau of Census. During the month the industry turned out 2,003,125 heavy-type steel barrels and drums; 825,267 light-type steel barrels and drums, and 5,141,377 steel shipping packages, kegs, and pails. This compares with 2,664,654 heavy-type shipping barrels; 816,987 light-type steel shipping barrels; and 5,259,266 steel shipping packages, kegs and pails in November.

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Arthur D. Little Makes Lothrop a Vice-President

Dr. Warren C. Lothrop has been appointed a vice-president of Arthur D. Little, Inc., Cambridge, Mass. Dr. Lothrop will be in charge of the research and development division, which includes the industrial chemistry, chemical research, and physics activities of the company's operations. This division will be housed in the new 60,000-square foot laboratory now being completed in West Cambridge.

Prior to his joining the staff of Little in 1946, Dr. Lothrop served as a technical aid on the National Defense Research Committee, where he administered research and development contracts awarded to academic and industrial institutions.

Atlas Adds 'Hystrene T-45' To Its Line of Fatty Acids

Atlas Powder Company, Wilmington, Del., has announced the addition of "Hystrene T-45" stearic acid to its line of solid, saturated fatty acids. The new product is a 55 percent-45 percent stearic ratio material of interest to cosmetic producers and others desiring high color stability. Compared with high quality, triple-pressed stearic acids, "Hystyrene T-45" is said to show outstanding resistance to darkening at elevated temperature. Samples and further information are available from the company's industrial chemicals division in Wilmington.

Wyeth Shifts Crowley

James E. Crowley has been named district sales manager for eastern Missouri by Wyeth Laboratories, Philadelphia. Mr. Crowley has been a Wyeth sales representative in Chicago and vicinity since 1947.

Trade Briefs

Eli Lilly International Corporation, Indianapolis, Ind., has given more than 100,000 bottles of medicine to Dr. Albert Schweitzer's hospital in Africa.

Lederle Laboratories, division of American Cyanamid Company, New York, now has sugar-coated tablets of its antibiotic, "Achromycin Tetracycline," formerly available only in capsules.

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Botanical Drugs, Spices, Gums

Vanilla bean prices were up sharply at Madagascar last week. Spot prices on Mexican whole beans advanced 25 cents while Tahitis were up 50c., on a nominal basis. In general, there has been limited price activity in the botanical drugs and gum section for the past few weeks. An explanation of this behavior might be laid to several reasons. In the case of some items, such as cocillana, elm and wahoo root barks, prices were merely nominal, in view of the scarcity of supplies for the past several weeks. Also in this category could be placed colombo and sarsaparilla roots, both of which are in very short supply or virtually unobtainable with several dealers.

With other botanical drug items, most of which were obtainable, dealers have been reluctant to discourage current consumption by advancing prices, however warranted the move might be in some cases. There has not appeared to be any movement in a downward direction, since replacement costs continue to hold at high levels, in most cases.

Dutch caraway seed continued to advance and was upped ½ cents on spot. East Indian mace advanced 10 cents per pound while West Indian held unchanged. Montana yellow mustard seed was ½ cent higher. Niger seed was up 2 cents, on a nominal basis. East Indian nutmeg was increased 1 cent per pound. Black Malabar pepper advanced 1 cent, on spot, while white pepper ended the week 2 cents higher. Jamaican pimento jumped 5 cents and was expected to go higher in view of the fact that supplies were expected to continue short until the new crop becomes available in July.

On the downward side, declines were mainly among spices. Turkish cumin seed was the sole reduction among seeds and declined ½ cent on spot sales. Batavia and Saigon cassias were lower. Cuttings were down ¼ cent while Saigons, all medium, were 5 cents lower. Madagascar and Zanzibar cloves declined 5 cents per pound, on spot. Ceylon cinnamon, No. 2, was ½ cent lower. Mexican pimento was reduced 1 cent, on spot, in contrast to the advance in the Jamaican material. Black pepper was up 1 cent while white pepper advanced 2 cents per pound.

Balsams

Peru—Prices continued firm on peru balsam last week. Current market quotations ranged from $1.35 to $1.70 per pound. Demand was steady.

Tolu—The market was firm on this item last week. Prices ranged from $3 to $3.50 per pound.

Barks

Blackberry Root—Demand for this botanical was said to be routine. Supplies were ample for current needs and expected to continue. Prices were quoted at 50c.

Black Haw Root—Despite the poor collections of this bark last year, supplies have generally proved ample to demand. Prices ranged from 65c. to 70c.

Cocillana—Prices continued nominal in the neighborhood of 45c. as a result of the continued dearth of supplies.

Cramp—Demand was small and supplies were adequate for current needs. Prices were from 85c. to 90c. on spot.

Elm—Supplies continued tight on this bark. There were no prices reported on the grinding grade.

Orange Peel—Haitian, bitter orange peel was offered at 14c. to 16c. The sweet ranged from 18c. to 20c.

Beans

Vanilla—Brisk trading in Madagascar was noted about mid-week. There was some resulting confusion in the spot market here as dealers were caught unawares by the surge in prices at origin. Reports from Madagascar were that heavy trading had been done with the United States and France and the market gained considerable strength, as a result. As far as could be determined, Bourbon beans were still being traded as low as $8 per pound late last week. The range for this variety went to $9, on the outside. Local dealers were still making price adjustments by the week's end and it was expected that Bourbon prices would reflect the increases at the source.

Mexican whole beans were up 25c. over the preceding week while cut beans were almost entirely nominal at $8. Reports on the new crop due to be offered in the near future were that prices would be higher than those prevailing at the present time. Tahitis were nominally quoted at $7.75, an advance of 50c.

Berries

Cubeb—There was little noteworthy activity in this item last week. Supplies appeared ample for current requirements and prices were unchanged.

Flowers

Arnica—Prices held unchanged on this item. Demand was reported to be steady while supplies were adequate.

Saffron—The market was quiet with Spanish saffron currently quoted at $25 per pounud.

Gums

Arabic—Amber sorts were reported to be firming up, on spot, reflecting the stronger market abroad. Prices ranged from 20c. to 23c. with indications that the lower price would not prevail much longer.

Benzoin—There was no particular activity in this commodity. Demand was on the quiet side and prices were firm.

Karaya—A strengthening trend was noted abroad but to date, there has been no effect upon spot prices here. Consumers appear to be indifferent to the higher prices being quoted at the source and it was not felt that prices here would advance in view of the quiet demand.

Herbs and Leaves

Euphorbia—Demand was quiet and supplies ample for consumer needs. Prices between 13c. and 15c.

Peppermint—Prices continued nominal on imported peppermint leaves. Domestic leaves were quoted at 70c. to 75c.

Miscellaneous

Ergot—Demand for ergot was on the quiet side. Prices ranged from $3.25 to $3.50, on spot.

Irish Moss—Current spot quotations ranged from 30c. to 35c. per pound. Supplies were adequate, trade sources reported.

St. John's Bread—Prices ranged from 13c. to 15c, on spot. Demand was routine and supplies ample.

Roots

Ipecac—The market at the origin was reported to be showing considerable strength. Large quantities of this root were moving into export channels, trade quarters reported. Spot prices here have

Price Trends

Advanced

Drugs

None

Other Articles

Caraway seed, Dutch, ½c. per lb.
Mace, Siauw, #1, 10c. per lb.
Mustard seed, Montana, yellow, ½c. per lb.
Niger seed, 2c. per lb.
Nutmeg, East Indian, 1c. per lb.
Pepper, black, Malabar, 1c. per lb.
White, 2c. per lb.
Pimento, Jamaican, 5c. per lb.

Reduced

Drugs

None

Other Articles

Cassia, Batavia, cuttings, ¼c. per lb.
Saigon, all mediums, 5c. per lb.
Cinnamon, Ceylon, #2, ½c. per lb.
Clove, Madagascar, 5c. per lb.
Zanzibar, 5c. per lb.
Cumin seed, Turkish, ½c. per lb.
Pepper, red, Japanese, birdseyes, 1c. per lb.
Nigerian, 2c. per lb.
Pimento, Mexican, 1c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Feb. 13, 1953
114.55	114.19	113.29	106.64

(For Current Prices see page 9)

Imports Detained by FDA

Week Ended February 5

New York

Black pepper (10 lots), 524 bags: moldy berries.
Cloves, 50 bags: filthy.
Chillies, 100 bags: moldy.
Nutmegs, 219 bags: moldy and wormy.
Oregano leaves, 120 bags: filthy.
Sage leaves, 116 bags: filthy.

For Late Market Developments, See Page 4

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been exhibiting greater firmness and there was said to be an excellent chance of advances in spot supplies. Currently, whole root was quoted at $6.25 to $6.50 while powdered was offered at 50c. higher.

Seeds

Caraway—Dutch caraway seed prices continued to advance last week. Spot prices at the week's close ranged from 15c. to 15½c. per pound. It was expected that prices would continue to firm and late cables confirmed this feeling. Seed deliveries to shipping points at origin have been considerably lower than in previous years and crop carryover was off substantially from estimates made earlier last year, it was said.

Cardamom—While spot prices remained firm last week, replacement stocks in India were reported to have soared. Cardamoms were expected to inch ahead, according to some quarters. Fancy, bleached A was offered at $3.60 while medium grade was available at $3.30 per pound. Decorticated Guatemalan and Alleppey were quoted at $1.94 and $2.10 per pound, respectively, on spot. Green cardamom held at $2.30 for Alleppey and $2.25 for Ceylon, afloat.

Celery—French seed was steady at 48½c., on spot. Indian celery seed was quoted at 18½c. and rubbing bottom, according to trade observers.

Coriander—Prices on spot steady at 7½c. on both Moroccan and Roumanian. Improvement was expected, however, trade quarters noted.

Cumin—Turkish cumin seed dropped ½c. last week, on spot. It was quoted at 13½c. to 14c. per pound. Iranian and Moroccan seed were steady at 15c. and 15½c., respectively.

Mustard—Montana yellow mustard seed advanced ½c. per pound last week. It was quoted at 9c., on spot. Other varies, both imported and domestic, held unchanged.

Poppy—Dutch poppy seed continued to advance last week. Spot quotations were up ½c. with prices ranging from 18c. to 18½c. Polish seed also advanced ½c. and was offered at 17½c. to 18c., on spot. Argentine and Turkish poppy seed held unchanged, at 14½c., spot.

Sesame—Sesame prices were reported to be holding firmly and moving well at current levels.

Spices

Cassia—Batavia cuttings declined ¼c. last week, while Saigon, all mediums, was off 5c. per pound. The cuttings were offered at 16c., on spot, while the latter were priced at 95c., on the same basis.

Clove—Spot prices declined 5c. per pound last week. Both Madagascar and Zanzibar cloves were affected by the reduction. Arrivals of Madagascars have settled the market back to a point which is fairly consistent with replacement levels. So far, there seems to be no willingness to shade the floor prices placed in Zanzibar and Madagascar. Consumers were generally buying on a hand to mouth basis in view of the situation. Madagascar cloves were 65c., on spot, and Zanzibar, 70c.

Mace—East Indian mace advanced 10c. last week, on spot. Siauw No. 1 quality was offered at $1.40. West Indian was steady at $1.30. There was expected to be no material improvement in supplies of East Indian varieties until March/April when the new crop will be shipped. West Indian grades are in better supply and prices may go higher, in view of the shortage of the East Indian material.

Nutmeg—East India whole and shrivel, advanced 1c., for shipment. Quotations ranged from 39c. to 40c. while West Indian was quoted at 28c. to 29c.

Pepper — The market was well maintained this week. When it was quiet and prices tended to drift off slightly, the downward movement uncovered enough demand to cause prices to recover promptly. However, buyers were slow to follow any advance very far and thus after the recovery the market quieted again. Spot prices on black Malabar had advanced 1c., by late in the week and were quoted at 91-92c. India held steady and refused to shade its levels to any large extent when business was quiet. This factor is gradually instilling confidence in the structure of the market, but at the same time the trade here seems to find little reason to get very enthusiastic. For one thing, current arrivals continue sizable and there is nc threat of a shortage. January shipments from India to the United States were in the neighborhood of 1,000 tons which assures a continuity of supplies. There is no single factor on the horizon which would support a protracted bullish movement at the moment, in the opinion of some trade observers.

Japanese birdseyes were off 1c., on spot and were quoted at 55-56c. Nigerian chilles declined 2c. to 30c., on spot.

Prices advanced 2c., on spot, last week. A strong market at the source was reported and spot prices ranged from $1 to $1.02 at source. It would appear that the bulk of the white crop has been sold and the remnants which will come out on the market are currently held for higher levels. Only the indifferent trend in black pepper prices keeps spot and nearby white from moving upward, some quarters averred.

Pimento—Jamaica pimento advanced 5c. on spot last week. Trade sources anticipate a continuance of strong market conditions in view of the fact that additional stocks are not expected until the new crop in July. Jamaican was offered at 50c. while Mexican ranged from 38-39c., a decline of 1c., from the preceding week.

Abbott Labs Makes Hebert Canadian Unit Sales Head

Abbott Laboratories, North Chicago, Ill., has announced the appointment of Adrien Hebert as Canadian division sales manager to fill the vacancy created by the death of Joseph H. Marchand.

Mr. Hebert joined Abbott as a salesman thirty years ago. He was made assistant manager of the Montreal sales district in 1945 and district manager in 1950. The company has also announced the promotion of Gerald R. Tremblay to the position of district manager at Montreal. Mr. Tremblay started in Abbott's purchasing department in 1934 and joined the sales organization in 1938.

Isopropyl Acetate Data Published

Isopropyl acetate is described in a new technical bulletin issued by Carbide & Carbon Chemicals Company, a Division of Union Carbide & Carbon Corporation. It gives data on the physical and physiological properties of isopropyl acetate as well as its specifications, shipping data, resin solubilities, constant-boiling mixtures, and performance in nitrocellulose lacquers. Copies of this technical bulletin (F-8295) are available on request from Carbide & Carbon Chemicals Company, 30 East 42nd street, New York 17.

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NATIONAL BLOOD PROGRAM

Essential Oils, Other Aromatics

The essential oils and aromatic chemicals market noted a fair amount of activity during the first half of February. Both the quantity and size of orders has increased over January. The rising costs of a number of products has led to a good bit of replacement buying, with citronella oil one example. Some further increases in buying volume were expected as production for summer business got under way. The week's price advance outweighed several declines and the index rose 0.37 point to stand at 145.79.

Cardamom oil was much stronger and was rapidly moving into a scarce position. Quotations from almost all dealers were raised for this item, and in some instances, only nominal quotations were offered. Citronella oil continued to firm, and advances in the spot market were considered almost certain in the coming weeks. Spot prices from some sources were below the replacement price, a situation that indicated the certainty of higher quotations on spot. Lemongrass oil continued quite firm, but inquiry appeared to be off a little.

Clove bud oil continued its recent downward spiral with another decline. The present low quotation, however, was felt by some in the trade to be the lowest possible, in view of the current situation in regard to the raw material. Prices lower than those currently prevailing have been announced for future delivery of bud oil, but it was uncertain whether prices would actually drop to these projected levels.

Ginger oil was slightly weaker, continuing the trend of the past weeks. Grapefruit oil was also among the items reduced. Borneol was available from one producer at quotations lower than those in effect earlier. Flower oils were reported in a stronger position at the source, as such items as jasmine and neroli were well sold out at Grasse. Lavandin has become stronger, also by reason of heavy sales. Lavender oil supplies were somewhat tighter, and high quality oil was especially firm.

Price Trends

Advanced

Oil, cardamom, $4.50 per lb.

Reduced

Borenol, 35c. per lb.
Oil, clove, 15c. per lb.
Dillweed, 50c. per lb.
Ginger, 50c. per lb.
Grapefruit, 15c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Feb. 13, 1953
145.79	145.42	148.99	160.86

(*For Current Prices see page 9*)

Essential Oils

Bergamot—When the crop is finished in March, a good deal more definite information on the situation in regard to this oil would be available, trade sources stated. As yet, not very much has been heard by those in contact with principals in Italy. From early indications, however, no extensive changes in replacement prices were indicated. During the past week, prices extended from a low-of-the-range of $10.75 per pound.

Cajeput—Very little material has been offered from the source in the past weeks, a situation that dealers felt would continue for at least some weeks longer. Inquiry has not been very heavy, however, and prices have remained steady. Native material was quoted from $1.90 per pound, and redistilled, from $2.45.

Cananga—Some sources formerly offering the material have withdrawn their quotations, by reason of the reduced amounts available at the source for shipment. A price of $8.50 per pound remained in effect as the low-of-the-range, but this price, if it followed the current trend, would be raised in the very near future. Rectified material was quoted from $12.50 per pound.

Cardamom—The low-of-the-range price jumped $4.50 per pound over the past week, as the former minimum was raised. Advances in this item were made by virtually all dealers. The stronger situation came after the advances in the spice itself and were expected to remain a part of the market for the foreseeable future. One source reported no supplies left and quoted a nominal price of $45 per pound.

Cedarleaf — Price schedules resisted further advances over the past week. A quotation of $2.25 per pound remained the low-of-the-range figure. The recent tightening of supplies was considered by some in the trade as a temporary condition, which would be relieved in the coming thirty to sixty days.

Cedarwood—Prices were quite firm, extending upward from 55c. per pound. Inquiry has been active, according to dealers, who stated that they were moving supplies along quite well. More material was expected to appear on the market during the next month.

Citronella—A price of 65c. per pound for Ceylon oil was maintained, and formed the low edge of quotations. The trend of the market continued upward, however, and spot prices of $1 per pound for this material were encountered. Formosan oil was also priced from 65c. per pound and up, but this figure represented a price lower than the current replacement figure, and was almost certain to rise in the very near future. Dealers stated that no halt in the upward shift in this item had been seen, and that they expected quotations in the coming weeks to display further advances. Derivatives were firmer, as well.

Clove—A price of $4.75 per pound was offered over the past week, the lowest yet in the downward spiral currently exhibited by bud oil. Dealers were doubtful about further declines, feeling that the item had gone as far as it might be able to go.

Dillweed—Material was offered from one source at $3.75 per pound last week, lowering the minimum price of this oil by 50c. per pound.

Ginger — The price range eased as a quotation of $10 per pound replaced the former low-of-the-range. The new figure represented a drop of 50c. per pound. The current reduction continued the decline noted in the past months, which have brought the item down substantially from its former price position.

Grapefruit—Prices eased slightly over the past week. A price of $3 per pound represented the current low-of-the-range, this price being 15c. below the earlier minimum.

Lavender—The position of this material appeared increasingly strong, especially top quality oil. Purchases have been quite heavy over the recent past, and holders abroad were not overly anxious to sell, feeling that the present trend was in no danger of reversing itself.

Lemon—Messina oil was lowered slightly by several sources, following an easier position at the source. Because of the declining price level, the oil has reached a more competitive position in relation to California material. The landed price of Messina oil, plus duty and other additions, put the material in a spot where it could be considered competitive with domestic. Regarding the future trend of the imported article, dealers stated that no great additional decline was to be expected. In fact, some trade observers stated that they had not expected the material to go as low as it currently has, and that any changes in the immediate future could be upward.

California material remained steady in price, ranging from $7.10 per pound to $7.50, depending upon producer. Prices have not varied in the past weeks, and no changes were expected in the coming weeks. Production, however, has not supplied the market completely with its needs, and a tight situation existed in regard to supplies. This condition was expected by those in the trade to become worse when buying for summer needs went into full force.

Lemongrass—The trend of prices over the past week continued upward, with a quotation of $1.35 per pound on spot forming the low of the range. Many dealers expected their quotations to go up at almost any time because of the strong upward movement this material has taken at the source. Not too much business was done over the past week for this item, it was stated in the trade, and this was taken as an indication that some reluctance to make heavy purchases had developed. Makers of aromatic derivatives of this oil have raised quotations in keeping with the rising costs of the raw material.

Lime — Prices were reported as being weak at the present time by trade sources. This was due primarily to a very easy demand and an adequate supply level. Dealers expected an increase in orders in the coming weeks, from producers of beverages and other items employing lime oil as a flavoring. However, there would be no lack of material, it was felt, when this

For Late Market Developments, See Page 4

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increase in inquiry materialized. Distilled, Mexican oil was quoted on spot from $5.25 per pound, and West Indian material from $5.40. Expressed, West Indian ranged from $7.75.

Ocotea Cymbarum — The dealers who last week stated that they were just about out of this item were voicing a common situation in the trade. Shipments from the source remained quite limited, while spot supplies have worked lower. Prices ranged from 68c. to $1 per pound on spot, but as inventories declined, prices were expected to shift toward the upper edge of this range. Inquiry for ocotea and for artificial sassafras as well, were reported continuing quite good.

Orange — Not too much business has been done in the past week in orange oil. The situation surprised some in the trade, who had expected a wider demand by this time. A good deal of seasonal buying had been expected. Trade sources watched for a more stimulated inquiry. California oil was quoted from 70c. to $1.25 per pound, depending upon brand. Florida material was priced from 64c. per pound. The market was said to be well supplied with material, and an increased inquiry would be covered without difficulty.

Palmarosa — A firming movement was noted in shipping prices, but as yet has brought about no sizable pickup on the spot market. Most users have continued purchases in normal quantities.

Patchouli—The spot market was steady, following the advance of the week previous. Further advances were indicated by the present replacement status of this item. Most dealers stated that they were unable to obtain replacement at today's spot levels. A gradually firming market was expected.

Peppermint—Activity in this item has not been heavy, it was stated in the trade. Business has been sufficiently good to indicate a steady price level for the coming weeks, however. Prices for natural material over the past week ranged from $5.60 per pound and up, while redistilled material was offered from $5.85 per pound.

Petitgrain—The earlier low-of-the-range price of $2.75 per pound remained in effect over the past week, but was expected to move up shortly. Shipments from South America were virtually nil, and following a period of good demand from soap makers and other consumers, spot stocks were well under their normal levels.

Pimento—Material of NF specifications was priced from $4.20 per pound, and was available freely on the market. Leaf oil ranged from $2.35.

Rosemary—Inquiry was reported as rather slow over the past week. The declining output from Spain has, therefore, not affected the market acutely. Technical material was quoted from 60c. per pound on spot, and USP oil ranged upward from 80c.

Sage—A price of $6.25 per pound for Dalmatian material remained as the low-of-the-range. This quotation represented the lowest price at which the material has been offered in at least the past twelve months. Spanish material experienced a rather slow inquiry, it was stated in the trade. Prices ranged upward from 90c.

Sassafras—Supplies of artificial, 1.070 material were reduced by the active demands of the past week. Both this material and ocotea cymbarum oil have experienced a very good call, and stocks have gone down considerably. Prices on spot ranged upward from 60c. per pound.

Snakeroot—Production of the last crop left the price level of this material unchanged. Suppliers offered the oil from $29.50. Although production was limited, it was expected to cover most demand for the item.

Spearmint—Material was offered from $6 per pound, the low-of-the-range price that has been in effect over the past weeks. Some trade sources indicated that material was tightening up, and a firmer price schedule was expected, depending upon consumption in the coming weeks.

Tansy—Spot prices over the coming weeks were expected to show little if any

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change from the current range, which extended from $7.75 per pound. Demand for this item has been reported steady but not in excess of the usual amounts.

Thyme—Replacement prices have, for some time past, remained steady, a condition that trade sources expected to continue for the coming weeks. Red oil, of NF specifications, was priced from $1.70 per pound and white, from $1.95.

Vetiver—Bourbon material was in a weaker position, with the market adequately supplied and spot prices lower than they have been for the past months. The low-of-the-range quotation remained at $15 per pound. Haitian material ranged from $12.25 and Java from $22.50.

Wormseed—With the low-of-the-range price standing at $4.75 per pound, the spot market showed some signs of firming. A long period extended before new material would become available, and this was expected to assist in giving strength to the price situation. Holders in the country appeared to be not quite so anxious to move material, and were reported resisting any further decline in prices.

Aromatic Chemicals

Borneol—One source offered the material at $2.50 and $2.75 per pound, depending upon quantity. This offer represented a reduction of 35c. per pound from the source maintaining the next closest price.

Citral—This material has followed the trend in all lemongrass oil derivatives and become considerably firmer. The higher costs of the raw material have recently made increases necessary in derivatives, which were expected to be well maintained for the foreseeable future.

Dodge & Olcott Officer Retires After 48 Years

On the anniversary of his forty-eighth year with Dodge & Olcott, Inc., New York, Charles O. Homan, vice-president in charge of sales, recently retired from active service. Mr. Homan will continue in an advisory capacity. During his first three years with D&O, Mr. Homan worked in the essential oil room. He began selling in 1913, and worked in the metropolitan New York area for the following five years.

Mr. Homan became D&O representative for New York state, Canada, Michigan, Ohio, Indiana and Kentucky in 1919. In 1927 he began traveling exclusively in Canada, Connecticut, Massachusetts, and New York. He returned to New York city in 1938 to become sales manager. In 1945 he was appointed vice-president in charge of sales, a post he held until his retirement.

Norwich Elects Two

Norwich Pharmacal Company, Norwich, N. Y., has elected John D. Hayes as secretary of the company and Paul D. Dohl as assistant secretary, to fill existing vacancies. Mr. Hayes is general counsel for the company and previously served as assistant secretary. Mr. Dohl joined the company in 1952.

Magnus, Mabee & Reynard Offers New Catalog in 'King Size' Format

A new "king size" catalog has been issued by Magnus, Mabee & Reynard, Inc., New York, reflecting the growth of the company and the variety of its stocks of essential oils, perfume bases and flavoring materials. Photographs of forty company executives and members of the domestic sales staff are included. Specifically designed to give prompt, accurate information about MM&R products, prices and policies, the new format will also permit the photographic portrayal of MM&R research, technological and manufacturing facilities, it was pointed out. The catalog will be published three times each year, in January, May and September, and mailed to purchasing agents and other executives in the industries serviced by the company.

Nitrogen Unit of Allied Offers Data

A new, thirty-three page technical bulletin describing ethylene oxide, ethyleneglycol and diethyleneglycol has been released by the nitrogen division of Allied Chemical & Dye Corporation. The division currently has under construction at Orange, Tex., a plant which will soon begin producing these chemicals.

The bulletin describes each chemical giving its uses, chemical and physical properties, handling and storage features and safety precautions. The behavior of each of the materials with other chemicals is portrayed by complete reaction formulas. It also gives complete analytical procedures to follow to determine color, odor, acidity, impurities, boiling range, specific gravity, etc., for each chemical. Copies may be obtained by writing to the division, 40 Rector street, New York 6.

Squibb Dedicates Facilities For Kansas City Branch

Lt. Gov. James T. Blair of Missouri recently dedicated the Kansas City, Mo., branch of E. R. Squibb & Sons, a division of Mathieson Corporation, Baltimore, Md. Present at the ceremony were J. J. Toohy, Squibb executive vice-president; W. L. Arscott, sales vice-president; Marvin A. Fortner, Kansas City regional manager and more than three thousand physicians, pharmacists, and civic leaders. The new building includes among its features refrigeration units for the storage of antibiotics and insulin, and custom designed vaults for ether and other products requiring special storage.

Chicago Perfumers Elect

The Chicago Perfumery, Soap and Extract Association has announced the election of William D. Ackley, of van Amerigen-Haebler, Inc., as its president. Others elected were:—Vice-president, Ellis Johnson, Hazel Atlas Glass Company; secretary, A. H. Culver, Packing Materials Corporation, and treasurer, E. F. LaSarre, St. Clair Specialty Manufacturing Company.

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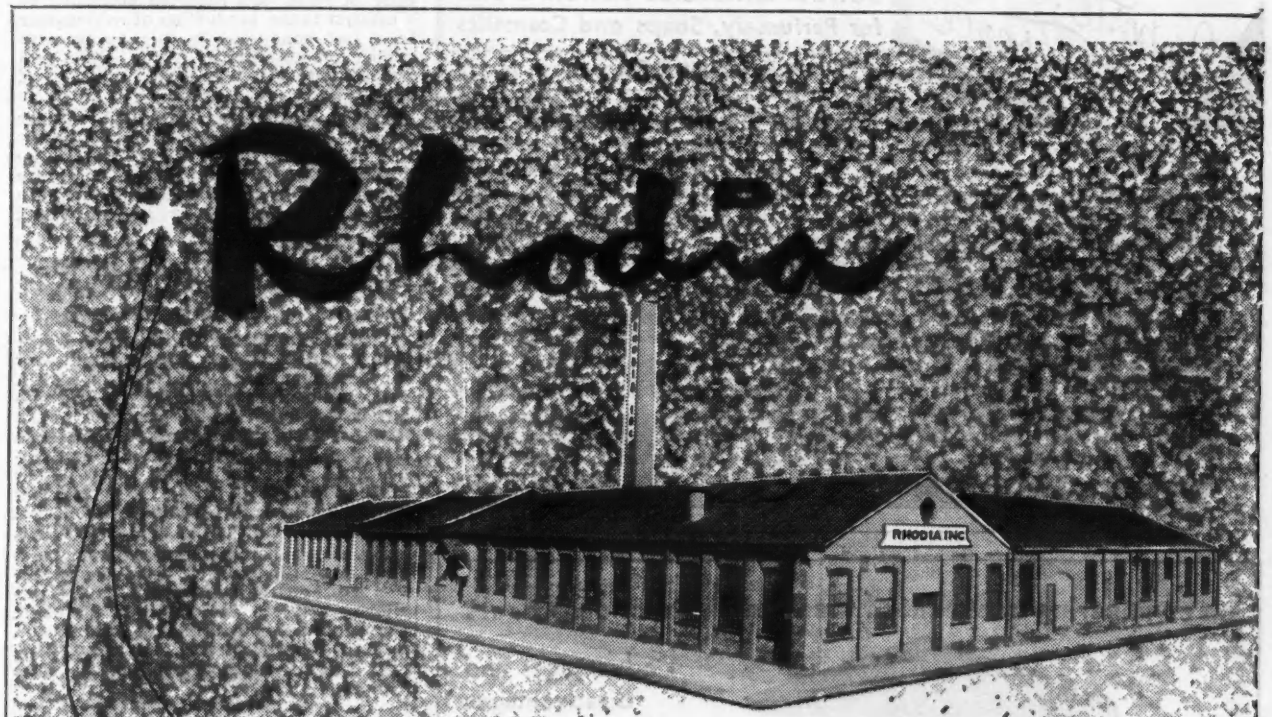

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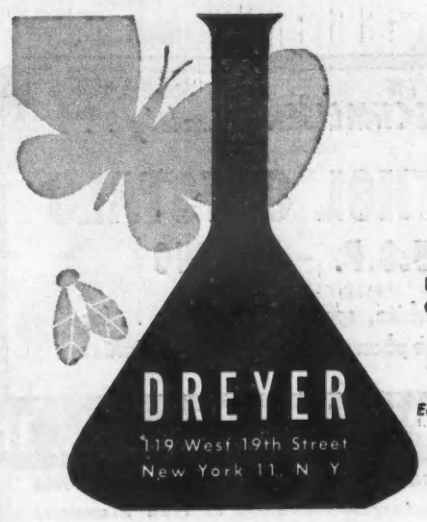

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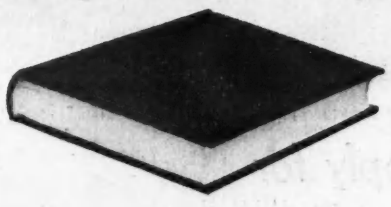

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Hydroperoxides From Rosin Described in Patent of USDA

Chemists of the Department of Agriculture have developed a new class of hydroperoxides from derivatives of gum rosin. These products are described in US patent No. 2,653,922, entitled "Hydroperoxy-substituted Rosin Materials and a Method for their Production," issued September 29, 1953, to F. L. McKennon and R. V. Lawrence, assigned to the Secretary of Agriculture.

Members of the naval stores research section, Olustee, Fla., a part of the Southern Utilization Research Branch, New Orleans, La., formed the new products by oxidizing esters to hydrogenated or disproportionated rosin. Their goal was to expand rosin's uses, in view of rosin's losses of large export markets, as well as of some domestic markets, due to the appearance of new chemicals in other industries.

According to USDA, the new series of hydroperoxides may turn out to be useful as catalysts in the production of synthetic rubber or as intermediates in the preparation of certain products containing the rosin nucleus. One paroxide, prepared by oxidation of the hydrogenated methyl ester of rosin, was reported promising as a catalyst in the production of cold rubber in a test conducted by the government rubber laboratories of Akron, Ohio, and led to improvement in some properties of the rubber.

This invention may be used without payment of royalty. A copy of the patent may be purchased for 25 cents from the Patent Office, Washington, D. C. More information on hydroperoxides from rosin may be obtained by writing the naval stores station at Olustee.

Bakelite Fills Two New Molding Materials Posts

Bakelite Company, a division of Union Carbide & Carbon Corporation, New York, has named J. M. Herbert and R. H. Bruce zone managers in its molding materials division. Mr. Herbert will fill the newly-created post of midwestern zone manager and will assist in the management of the territories serviced by offices in Chicago, Detroit, Mich.; Pittsburgh, Pa.; St. Louis, Mo., and Cincinnati, Ohio. His headquarters will be in the Detroit office.

Mr. Bruce becomes eastern zone manager, also filling a newly-created post. He will assist in the management of the territories serviced by offices in Hartford, Conn.; Philadelphia; Boston; Rochester, N. Y.; Clifton, N. J., and Larchmont, N. Y. Mr. Bruce has been with Bakelite since 1941.

Metal Phosphate Booklet Offered

A twelve-page booklet entitled "Solubility Factor in Metal Phosphate Pre-Treatments" is available for 35 cents from the Office of Information Services, New York University, University Heights, New York 53. The paper describes new methods of measuring chemical conversion during pre-treatments of steel surfaces and the effect on paint bonding. It discusses water-soluble matter in the phosphate coating and the effect of chemical remnants in phosphate treatments on paint bonding qualities. It also contains charts and photographs.

Kanawha Coatings Society Forum Set for Feb. 25

The Kanawha Coatings Society will present a technical forum on "Recent Developments of Paint Coatings and Their Usage," February 25 in the senate chamber of the West Virginia state capitol building, Charleston. The forum will be preceded by a dinner at 6:30 p.m. in the Swan Cafe.

Panel leaders and their topics are:—A. J. Liebman, consulting engineer, "Surface Preparation;" G. G. Sward, assistant director, National Paint, Varnish and Lacquer Association, "Oleoresinous and Alkyd Coatings;" N. T. Shideler, "Bituminous Coatings," and L. R. Whiting, Bakelite Company, a division of Union Carbide & Carbon Corporation, "Vinyl Coatings."

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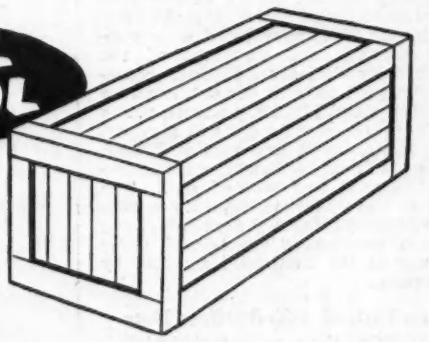

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Protective Coatings Materials

The natural resins market continued to show strong activity, with continued buying pressure from Europe and Japan having sent prices up on some grades of Congo, Manila, and pontianak gums. Dammar gums continued firm, with supplies scarce in some instances. One source reported that Manila DBB copal was very short on spot in this country.

Activity in prime pigments was considered to be at an increased level by most producers last week. Most dry colors were moving in a larger volume to consumers, presumably because the effects of the year-end slump had worn off. Buying was also affected to some extent by anticipation of the coming painting season, although most producers felt that a definite influence would be more clearly felt later on. Interest in earth colors continued at a good pace, but consumers still were interested chiefly in small quantities for immediate shipment.

Lead and zinc pigments reflected the quietness of metals markets, as did copper oxide. There was no significant change in the aluminum pigments market. Interest in synthetic resins continued to improve last week, with manufacturers reporting that customers were once again buying ahead. Previously interest was limited to immediate needs, particularly around the beginning of the year. The improved situation held true for most resins, as observers felt that the trend for the rest of the quarter would be upward as far as sales were concerned.

There were no reports of price activity in lacquer materials, as prices held firm following recent reductions for some plasticizers. Satisfactory quantities of dioctyl phthalate were reported sold during the week. Tricresyl phosphate remained in good demand. Fillers and inerts were quiet following a recent upward revision in tripoli prices. Calcium carbonate, fuller's earth, and silica were plentiful, and generally available for prompt shipment.

The casein market was unsettled and without change last week, the unsettlement being brought about by several factors which could feasibly upset the present position of Argentine material. Driers and flattening agents held at previously determined price schedules, and makers did not look for any immediate changes.

Price Trends

Advanced

Gum, copal, Congo, No. 2, 1c. per lb.
No. 3, 1c. per lb.
Manila, CBB, 3c. per lb.
DBB, 2c. per lb.
soft, WS, 5c. per lb.
Pontianak, nubs, 1c. per lb.

Reduced

Shellac, lemon, No. 1, 1c. per lb.
No. 2, 1½c. per lb.
Superfine, ½c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Feb. 13, 1953
93.78	93.66	93.68	88.43

(*For Current Prices see page 9*)

Prime Pigments

Aluminum Paste, Powder—Demand held at a normal rate last week, with material reported available for immediate shipment. Unchanged prices were expected by most makers to continue into the near future.

The Bureau of Census reports that 288,000 pounds of flaked aluminum powder were shipped by producers during December, as compared to 269,000 pounds (revised) for November, and 248,000 pounds for December, 1952. Some 764,000 pounds of aluminum paste were shipped by manufacturers during December, as compared to 898,000 pounds shipped during November, and 792,000 pounds shipped during December, 1952.

Antimony Oxide—There was no significant change in the market last week. Prices continued the same. Customers took as much as they needed for immediate use.

Cadmium Colors — Prices for cadmium lithopone pigments containing selenium, recently revised upward, held steady and unchanged last week. The recent drop in the price of cadmium metal, although sizable, had little or no visible effect on the market, as producers did not lower pigment prices. It was generally felt that recent increases in selenium would more than offset reductions in cadmium metal, and that metal reductions would have little or no effect on present prices of those pigments which do not contain selenium. Consuming demand continued normal, with shortages of selenium-containing cadmium lithopone reds and maroons still plaguing both consumers and producers.

Cobalt Oxide — There has been little change in this market since the first of the year, according to most suppliers. Prices held steady last week, with plenty of material offered at unchanged prices.

Copper Oxide — Schedules remained without change for both red and black oxides last week. The market was generally stable, reflecting the condition of the copper metal market.

Earth Colors — Some sources felt that demand was a little slower last week, while others said that interest had picked up slightly since the first of the year. It was agreed, however, that sales were in satisfactory volume, and that January had been better than December. There was no report of price activity, all quotations continuing the same. Supplies were excellent, with buyers purchasing mainly for immediate needs.

Iron Blues—Prices held without change, as the market remained quiet last week. Production and stocks were available to fill existing needs of customers. It was felt that sales had improved to some extent since January, but the attitude of the trade was "wait and see" regarding future demand.

Lead Pigments—The market was quiet last week, reflecting the metal market. White leads were moving in good volume, and the battery trade continued to issue sizable call for oxides and litharge. Orange mineral continued to move to limited demand.

Synthetic Iron Oxides — Trading in these colors was unspectacular during the week, with producers noting little or no change in the present market situation. Prices held steady and unchanged, with plentiful supplies and a demand limited chiefly to immediate needs and prompt shipment.

Titanium Dioxide—Plentiful stocks continued to move at a moderately good volume. Most producers felt that demand had increased since last December. Prices remained steady, and most makers felt that there would be little or no change in quotations for some time.

Ultramarine Blues — The market was without feature last week. Material continued to be offered at prices of long standing. Demand was thought to have built up above January levels, although reports of heavy purchases were few and far between. Buying was restricted to immediate needs, with consumers interested in prompt delivery.

Zinc Oxide—Market conditions were stable last week, as prices continued unchanged. It was pointed out by one source that the surplus in stocks bothering metal manufacturers had not been encountered by American process pigment makers. Supplies of leaded and lead-free American process material were ample, however, and available for prompt shipment. French process oxide was thought to be somewhat on the long side, as far as supplies were concerned, but there was little or no tendency to talk of price changes at this time, owing to the fact that demand was holding at good levels. Most producers reported that interest had been on the upswing during the past few weeks, and it was expected that customers would buy in even greater amounts once needs for the painting season were anticipated.

Synthetic Resins

Alkyds—Consensus was that sales were picking up last week, and had steadily improved since the first of the year. This applied mainly to the items in widest use. It was pointed out that specialty items had been moving along at a good consistent rate, relatively unaffected by seasonal trends. It was also felt that demand would continue to pick up during the remainder of the first quarter. There was plenty of material on hand to fill customer requirements last week. Quotations went on without change.

Ester Gums—Demand was about average last week. Gum rosin type continued at 16c. to 16½c. per pound, drums, carlots, delivered East. Wood rosin type was unchanged and steady at 15½c. per pound, same basis. Stocks were plentiful.

Maleics—Producers noted a steady increase in demand last week. Sales were expected to continue to improve for the rest of the first quarter. Prices were unchanged, with supplies ample.

Petroleum Hydrocarbons—Sales volumes held at a satisfactory level last week,

For Late Market Developments, See Page 4

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2. No. 65 extra white refined bone dry bleached shellac.
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Sp. Gr. at 15.5/15.5°C.	0.945	0.980	0.975
Acid Number	Neutral	2	40
Viscosity, 25°C, centipoises	200	1100	1100
Moisture	Trace	Trace	Trace
Solids Content	100%	100%	100%

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continuing the trend which has existed for some weeks now. Producers felt that there was enough material on hand to readily satisfy all consumer needs. One source pointed out that research and development were playing a great part in spreading customer interest. It was said that a recent combination of a petroleum resin with a long oil base alkyd resin stood up very well under tests for flexibility and adhesion, as well as imparting good gloss characteristics to the surface coating tested. It was found that in this particular combination, flexibility and adhesion were actually improved by addition of the hydrocarbon resin.

Phenolics—Demand was said to have been given added impetus by recent reductions for most of these resins. Sales so far in February were considered better in volume than for the corresponding period in January. It was also indicated that consumers were buying further ahead this month, whereas sales during the first two weeks last month were characterized by close-to-the-vest buying. Plentiful stocks were available at unchanged listings last week.

Silicones—The overall market picture was described as comparatively quiet. It was said that the government had slackened considerably on demand for electrical tapes, but that industrial inquiry was holding its own. It was also noted that sales of laminating resins were very good. A slow but continued growth in sales of coating resins was seen for the midwest, while sales in the east continued at a low level. It was felt that the key to a better trade picture in the future lay in present research and development.

Lacquer Materials

Dibutyl Phthalate—Trade was quiet last week as prices held steady and unchanged. Sales were said to have shown some improvement over levels earlier this year. Stocks were available to fill current consumer needs.

Dicyclohexyl Phthalate—Material was said to be moving well to specialized consumption. Prices went on unchanged, with little or no change anticipated for the immediate future. Customers experienced no trouble in getting what they needed.

Dioctyl Phthalate—Some sources reported an increase in sales over the past week. It was felt that consumers were not building up heavy stocks, but that sales in less carlot quantities were moving well. Stocks were readily obtainable.

Edible Esters—One source noted that the market for acetyltributyl and tributyl citrates was particularly good at this time. Large quantities of acetyltributyl citrate were going into the manufacture of plastics, it was said. Acetyltriethyl citrate continued to move at an average volume. There were no changes in quotations. Supplies were considered ample enough to handle all current demand.

Tricresyl Phosphate—Pricing schedules for both petroleum and coaltar grades continued without change last week. Inquiry was reported good. Most observers felt that consumer interest would continually pick up as new uses for this versatile material were found. Present consumption was said to be running slightly ahead of the comparable period for last month.

Triphenyl Phosphate—Customer interest continued at a good rate for this material. Supplies were plentiful, moving at unchanged prices. The market picture continued generally stable.

Natural Resins

Copal Gum—The market continued firm both here and abroad, with prices moving higher. Congo No. 2, long a firm item, rose 1c. per pound, offered at 17c. to 19c. per pound, spot. No. 3 was up ½c., offered at 15c. to 16½c. per pound, same basis. Manila CBB jumped 3c. per pound, to a new range of 26c. to 28c. per pound. DBB was up 2c., to 24c. to 26c. per pound. Soft WS rose 5c. per pound, offered at 32c. to 36c. per pound. Pontianak nubs were up 1c., the new range being 31c. to 34c. per pound.

Dammar Gum—The market was generally very firm on spot and at the source of supply last week, due to heavy buying from Europe and Japan and shortage of stocks. Siam dammar was offered at from 34c. to 37c. per pound. Singapore gums continued scarce, with little chance of immediate or plentiful replacement.

Shellac — The market was easier last week, as orange grades were reduced in price. Stocks on spot were plentiful, with demand chiefly for immediate needs. Trade was relatively unaffected last week by continuing reports of a good new crop.

Fillers and Inerts

Blanc Fixe—The market situation was little unchanged from previous weeks. Prices remained unrevised. Supplies were on hand to take care of current needs.

Calcium Carbonate—The market con-

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tinued quiet and relatively unchanged. Prices held steady, remaining at previous levels. Producers felt that the supply position was excellent, and that all present demand was being promptly taken care of.

Fuller's Earth—There was little change in the market. Consumption held at average levels, with supplies available for prompt shipment at unchanged quotations.

Silica — Trading was quiet last week, holding at levels established during the past few months. Plenty of material was available to customers at unchanged prices.

Miscellaneous Materials

Asphalt—Petroleum type remained unchanged, with plentiful supplies and well sustained demand.

Gilsonite continued at old quotations, but there was general feeling that prices would increase in the near future, due to increased costs of operation. Casein was quiet last week, with duty paid prices in this country steady and unchanged.

Casein—The market undertone for casein continued unsettled last week. Argentine material remained at 21½c. to 23c. per pound, duty paid, 100 bag lots or more. Demand in this country still held off to a great extent, as consumers awaited developments which could possibly shade the floor price of 18c. per pound established by IAPI, the Argentine government agency. One source expected good production in France and Denmark to have a future effect on the market. It was also pointed out that imports from Argentina for the first 11 months of 1953 totaled some 56,600,000 pounds, while New Zealand imports ran second, amounting to 8,800,000 pounds. Of great interest to many in the trade was the fact that Canada was third in the picture, some 2,500,000 pounds of casein having been imported from that country during the first 11 months of last year. To add to the general unsettled condition in the market was a report that some domestic standard casein was available at 1c. to 1½c. per pound below regular schedules.

Chlorinated Paraffin—Plentiful supplies were available at unchanged listings last week. Producers felt that demand could improve, but that on the whole busines was satisfactory.

Glue—The following figures prepared by the Bureau of Census indicate in pounds the production, shipments, and stocks of animal glue.

Production

	December	November
Hide, glue, total	4,643,711	4,549,608
Low grade	1,502,905	1,536,393
Medium grade	1,178,689	1,223,526
High grade	962,720	1,138,823
Extra high grade	999,397	650,866
Bone glue, total	5,512,698	5,633,408
Green	4,107,398	4,167,949
Extracted	1,405,300	1,465,459
Glue, total	10,156,409	10,183,016

Shipments

Hide glue, total	4,061,560	3,805,262
Low grade	1,965,122	1,506,322
Medium grade	1,052,649	1,102,113
High grade	527,225	641,168
Extra high grade	516,564	555,659
Bone glue, total	4,428,478	5,297,092
Green	3,075,325	3,667,543
Extracted	1,353,153	1,629,549
Glue, total	8,490,038	9,102,354

Stocks

Hide glue, total	21,335,823	20,753,672
Low grade	11,311,998	11,757,642
Medium grade	3,995,368	3,909,881
High grade	3,647,372	3,168,387
Extra high grade	2,381,085	1,917,762
Bone glue, total	16,525,366	15,441,146
Green	10,775,077	9,743,004
Extracted	5,750,289	5,698,142
Glue, total	37,861,189	36,194,818

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri.	Mon.	Tues.	Wed.	‡Thur.
Drums—					
K	$7.53	$7.88	...	...	...
N	7.90		...	...	...
WG	...	7.93‡	...	$8.00	...
WW	...	8.13‡	...	...	...
Bags—					
G	7.50	...	...	...	...
H	7.50	...	...	...	...
I	7.50	...	...	...	...
N	7.80	...	...	...	...
WG	7.80	...	...	...	...
WW	8.05	...	...	...	...

Tankcars (for week ended February 5)—WG $7.65, N $7.60, M $7.42½, K or better $7.37½, 1,531*.

Sales, USDA

572*	519*	...	2‡	...

New York

(per 100 lbs., c.l., Friday)

B through N $8.70, WW $9.10, WG $9.00.

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.5275	.533‡	.53	.532	...
Sales	6,000¶†	16,000¶†	4,000¶†	8,000¶†	...

New York, Friday, per gal. 7 lbs., tankcars, 59c., l.c.l. 70c.

*Drums equivalent, †Tankcars, ‡Carlots, ¶Gallons, §Average price, ‖Not available at presstime.

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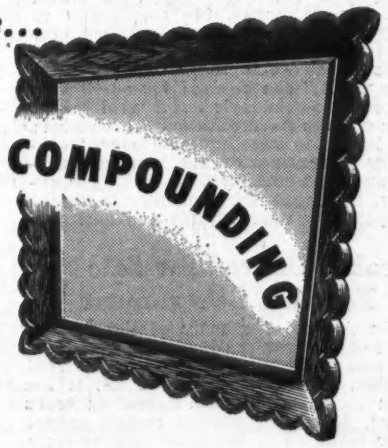

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Polyester Resins Added To Line by Cyanamid Co.

American Cyanamid Company, New York, has announced the development of three new polyester resins—"Laminac 4110," "Laminac 4111" and "Laminac 4147."

Cyanamid said "Laminac 4110" is a low viscosity type resin designed primarily for use in low temperature curing applications. It is not affected by air exposure during its cure and dries to a completely tack-free surface in times which can be controlled through the percentage of catalyst utilized. Surfaces may be sanded or finished immediately after curing has been completed. The new resin is particularly applicable where excellent surface cure and resistance to water are required in the end product, such as in the sports boat industry.

"Laminac 4111" is a low viscosity styrene monomer modified polyester resin and can be promoted and catalyzed for low temperature or atmospheric curing conditions. Fibrous glass laminates made with it are far superior in strength retention properties to the conventional polyester resins when exposed to boiling water, boiling 10 percent mineral acids and even boiling 10 percent caustic. However, this resin is not recommended for uses requiring highly alkaline resistance without prior testing against the actual conditions of exposure, according to the producer.

"Laminac 4147," is said to permit for the first time the fabrication of translucent panels having both light stability and self-extinguishing properties. Formerly, light-stabilized panels made of polyester resin and glass fibers would continue to burn after the source of flame was removed. Panels made with the new "Laminac 4147" are self-extinguishing after the flame has beenu removed. This self-extinguishing property is maintained even after long exposure at 150 degrees Fahrenheit, Cyanamid pointed out. The material is a styrene-base polyester resin and can be used in much the same manner as the typical non-self-extinguishing resins. Physical properties of the cured resin are comparable with standard polyester resins, it was said.

Maywood Chemical Has New Protein Fatty Acid Product

Maywood Chemical Works, Maywood, N.J., has announced the availability of "Maypon K-903," a protein fatty acid condensation product. The new material, which is a development of Maywood's "Maypon K," can be used for application on cotton, rayon, nylon and wool in the form of loose stock, yarn and woven fibric, and is said to have superior overall efficiency in wetting, drying, scouring, milling and spot removing. In making emulsions, it is reported to display increased compatibility with solvents and oils.

Alcohol Offered for Sale By Ecuador Government

The Alcohol Monopoly of the government of Ecuador has invited proposals on the sale of its 95 percent pure industrial alcohol, equivalent to 190 proof, it has been announced by the consul general's office. Interested parties should submit their inquiries or proposals, setting forth price offered, terms and conditions, and whether they are interested in buying the alcohol in bulk, drums, or in other quantities, together with delivery dates, to Senor Director, Monopolios del Estado, Estanco de Alcoholes, Quito, Ecuador.

Resin Developed by Borden

Development of a new resin designed to improve wet strength, folding endurance and scuff resistance to paper stock has been announced by Borden Company's chemical division. The new product is recommended for toweling stock since it strengthens the paper without affecting its absorbency, Borden said. The new resin, "PR-165," develops about 75 percent of its ultimate cure as the paper leaves the machine, reaching full cure in fourteen to twenty-one days. Full cure may be hastened by storing the paper in a warm room for several days. Additional information may be obtained from the division at 350 Madison avenue, New York 17.

Butadiene-Styrene Latex Item Developed by American-Polymer

American Polymer Company, of the chemical division of Borden Company, Peabody, Mass., has announced a new freeze-thaw stable butadiene-styrene latex. The product carries the designation P-556. It has been specifically developed as a pigment binder for the paint industry. However, due to other unusual properties and low foaming characteristics, it can be used in the paper and related fields, American Polymer said. Data sheet P-29 supplement, containing complete information on the product, is available from the company.

Colledge Names Hommell, Roettker Companies Agents

Appointment of the O. Hommell Company of Pittsburgh, Pa., and the B. H. Roettker Company of Cincinnati, Ohio, as sales representatives for E. W. Colledge, G. S. A., Inc., Jacksonville, Fla., exclusive selling agents for the Glidden Company's naval stores division, has been announced by R. L. Diggs, vice-president of the Colledge firm.

The new representatives will handle a complete line of Glidden naval stores manufactured by the division's plants in Florida and Georgia, and by the American Turpentine & Tar Company of New Orleans, La. Complete warehouse stocks of these products, including pinetars, pine-tar oil, gum, wood and sulphate turpentine, "Nelio" gum rosin, dipentene, pine oils, gloss oils, rosin oils and anti-skinning agents, will be carried in both Pittsburgh and Cincinnati.

Obituaries

Henry E. Dodge

Henry E. Dodge, retired treasurer and director with Newmark Mining Company, New York, died February 8 in Great Barrington, Mass. He was seventy years old. Mr. Dodge, associated with the company for many years, was also a former director of the Magma Copper Company.

J. Malcolm Thomson

J. Malcolm Thomson, secretary of Washine-National-Sands, Inc., Long Island City, N. Y., died February 5 at his home in Huntington, L. I. He was sixty-nine years of age. Mr. Thomson had been with Washine-National-Sands or its predecessor companies for almost forty years, and had served as its secretary for a quarter of a century.

F. Kenneth Alling, a retired statistician in New York for the Association of American Soap and Glycerine Producers, died in Mount Vernon, N. Y., February 9. He was sixty-five years old.

Richard C. Berresford, in charge of management-employee relations for New Jersey Zinc Company, New York, died last week in that city. He was forty-six years old.

Everard C. Brown, retired treasurer of United States Testing Company, Hoboken, N. J., died February 7 in Englewood, N. J. He was eighty-five years old.

James W. Charlton, sr., foreman of the lacquer department at Lowe Brothers Paint Company, Dayton, Ohio, died February 3. He was sixty-two years old and had been associated with the concern thirty-two years.

Henry E. Dodge, retired secretary of Newmont Mining Company, New York, died February 8 in Great Barrington, Mass. He was seventy-one years old.

George R. Flint, president of Flint, Eaton & Co., Decatur, Ill., died February 4 in that city. He was seventy years old.

Dr. James S. McLester, former president of the American Medical Association and international authority on nutrition, died February 7 in Birmingham, Ala. He was sixty-eight years old.

George F. Olsen, retired director of General Petroleum Corporation, Los Angeles, Cal., died February 9 in that city. He was seventy-four years old.

F. H. Schultz, treasurer of North Coast Chemical and Soap Works, Seattle, Wash., died January 15 in that city.

James C. Stewart, member of the inspection commission of Cities Service Oil Company, Elizabeth, N. J., died February 7 in that city. He was forty-four years old.

James L. Taylor, an employee of Merck & Co., Rahway, N. J., died February 7 in that city. He was sixty years old.

Edward E. Warner, associated for many years with the aluminum industry as a foreign representative, died February 6 in New York. He was sixty-six years old. He had been with Aluminum Company of America, Aluminum, Ltd., of Canada, and Bohn Aluminum & Brass Corporation.

Dr. Frank Wenner, associated with the Bureau of Standards since 1907, died February 6 in Washington, D. C. He was eighty years old.

TAPPI Annual Parley Slated to Begin Today

—Continued from page 5

gating Medium," by Claude H. Fletcher, Corn Products Sales Company, Kalamazoo, Mich., and "Case Sealing Adhesives for High Humidity Container Storage," by W. Sederlund, National Starch Products, Inc., New York.

Talks on Papermaking

At a papermaking session, W. F. Reynolds, L. A. Lundberg and J. C. Barthel, of the Stamford, Conn., Research Laboratories of American Cyanamid Company, will present a paper on "Sizing of Paper Under Neutral or Alkaline Conditions," and Charles W. Hock, of Hercules Powder Company, Wilmington, Del., will speak on "Studies of Rosin Sizing by Means of Autoradiography and Electron Microscopy."

On February 17, at a corrugated containers session, R. L. Kreyling, of Philadelphia Quartz Company, Philadelphia, will speak on "Thermal Balance With Silicate Adhesives," and at a session on pulp purification, the following papers will be presented:—"A New Process for the Bleaching of Kraft Pulp With Sodium Peroxide," by W. F. Schroeder and John R. Seferian, National Distillers Chemical Corporation, Ashtabula, Ohio; "Bleaching With Chlorine Dioxide," by W. D. Harrison, Riegel Paper Corporation, Milford, N. J.; "Cromatographic Technics in the Analysis of Pulps," by J. F. Saeman, W. E. Moore, R. L. Mitchell and M. A. Millett, Forest Products Laboratory, Madison, Wis., and "A Comparison of Processes for Generating Chlorine Dioxide in Pulp Mills," by W. Howard Rapson.

Testing to Be a Topic

A session on testing will hear the following papers:—"The Effect of Copper and Base Concentrations in Cellulose Solvents," by B. L. Browning, Institute of Paper Chemistry, Appleton, Wis.; "Predicting the Brightness of Groundwood-Sulphite Mixtures," by D. J. MacLaurin, Institute of Paper Chemistry, and F. A. Aflenzer, Institute of Pulp and Paper Technology, Graz, Austria; "Methods for Cellulose Accessibility Determination," by Geoffrey Broughton, Robert E. Heeks and Conrad Johannes, University of Rochester; "Photometric Determination of the Solubility of Pulp in Sodium Hydroxide Solutions," by Ralph M. Kingsbury, Forest Products Laboratory, Madison, Wis., and "Identification of Wet-Strength Resins in Paper by a Dye Staining Technic," by R. R. House and N. T. Woodbury, of the Stamford, Conn., Research Laboratories of American Cyanamid Company.

At a corrugated containers session on February 17, L. O. Carlisle, of A. E. Staley Manufacturing Company, Decatur, Ill., will present a paper on "The Importance of Viscosity Control of Corrugating Starch." A session on statistics will hear Maynard S. Renner, of Dewey & Almy Chemical Company, Cambridge, Mass., speak on "A Study of Basis Weight and Caliper Variation."

Chemical Engineering Program

The following papers will be presented at a chemical engineering session:—"Corrosion Resistance of Various Metals and Alloys in Chlorine Dioxide Pulp Bleaching," by H. O. Teeple, International Nickel Company, New York; "The Dilution Curve—Its Use in the Correlation of Pulp Washing and Evaporation," by H. K. Waters and R. E. Bergstrom, Swenson Evaporator Company; Harvey, Ill.; "Some Aspects of Permeation, Filtration and Fluidization," by Roy P. Whitney, W. L. Ingmanson and S. T. Han, Institute of Paper Chemistry, and "The Thermal Compression Evaporator for Spent Sulphite Liquors," by D. Craig and J. K. Russell, Lignosal Chemicals, Ltd., Northeastern Paper Products, Ltd., Quebec.

On the final day at a session on pulps or chemical conversion, the following papers will be presented:—"Problems in the Evaluation of Caustic Absorbency of Pulp Sheets," by R. W. Swinehart and A. T. Maasberg, Dow Chemical Company, Midland, Mich.; "A Cellulose Yield Test Overcoming the Inadequacies of the Alpha Test," by Frank R. Charles, Industrial Cellulose Research, Ltd., Hawkesbury, Ont.; "Cellulose Solvents for Viscosity Measurements," by E. L. Hanson and L. M. Cooke, Visking Corporation, Chicago; "Investigation of the Haze in Cellulose Acetates Made From Wood Pulps," by Keith E. Bradway, Camp Manufacturing Company, Franklin, Va.; "Effect of Medium in the Acetylation of Cellulose," by R. C. Blume and F. H. Swezey, E. I. duPont de Nemours & Co., Waynesboro, Va.; "Carbohydrates in Woods and Pulps by Cromatographic Analysis," by Albert Z. Conner, Hercules Powder Company, and "Purified Hardwood Pulps for Chemical Conversion. II. Prehydrolysis - Sulphate Pulps From Sweetgum," F. A. Simmonds, J. S. Martin and R. M. Kingsbury, Forest Products Laboratory.

The water session will hear Seldon K. Adkins and Maurice F. Nielsen, of National Aluminate Company, Chicago, speak on "Condensate Corrosion—Its Causes and Prevention." At the annual luncheon the TAPPI medal will go to Gunnar W. E. Nicholson, Union Bag & Paper Corporation, New York. The medal will be presented by K. O. Elderkin, Bowaters Southern Paper Corporation, Calhoun, Tenn.

E Z Paintr Appoints Five To Sales, Billing Sections

E Z Paintr Central States Corporation, Milwaukee, Wis., a division of E Z Paintr Corporation, has added four sales representatives to the southeastern sales force, and named George Lavertue head of the billing and sales statistics department at its Los Angeles plant. Mr. Lavertue was formerly in the billing department at the company's Milwaukee plant.

Named as sales representatives were:—Harry W. Parker, who will cover Florida; R. T. Austin, who will cover North and South Carolina; Frank Sledge, covering eastern Tennessee and Alabama; and Al Parks, who will cover Virginia.

Paint Industry Group Elects Dewar

John B. Dewar, of the Painting and Decorating Contractors of America, has been elected chairman of the Joint Paint Industry Coordinating Committee. Others elected were:—Vice-chairman, D. H. Moran, National Paint, Varnish and Lacquer Association, and secretary-treasurer, Irwin E. Douglas, Retail Paint and Wallpaper Distributors of America.

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Oils, Fats and Waxes

Feature of the oils and fats market was the continued strength of tallow and greases last week which resulted in additional price advances. Trading was fairly active for export, while domestic business was reported light and spotty. Soapers showed no interest at the higher levels. The higher cost of these materials resulted in the advance of one cent per pound for oleic, stearic and tallow fatty acids. Soybean fatty acid also was lifted one cent, while other vegetable acids were quotably unchanged. Grease oils also were up fractionally.

Edible oils were irregular with crude cottonseed and soybean oils slightly lower, and corn and peanut unchanged. Crude coconut oil was easier, with light trading at fractionally lower prices. Copra also dropped $12.50 per ton.

Linseed oil continued weak and was under keen competition. Prices were lower reflecting the lower flaxseed market. Prices could have been further reduced for carlot quantities. Tung and oiticica oils remained firm and scarce due to the labor strike at the leading oil storage terminal in the Metropolitan area, which has tied up withdrawals of supplies. Trading was spotty and confined to light stocks of "free oil." Consumers, however, are becoming concerned as inventories have been reduced materially.

Soybean meal was stronger with the higher cost of beans and shipments were advanced $3 per ton. Cottonseed and linseed meals were easier and slightly lower due to slackened demand.

In vegetable waxes, ouricury and montan waxes were advanced due to scarcity of stocks here and the higher cost of replacements. Improved demand for candelilla also strengthened the spot market and trading took place at an advance of two cents per pound. Continued quiet consuming demand for carnauba wax kept this market easy and quotations remained nominal. No. 3, Ceara crude and refined grades declined two cents per pound.

Vegetable Oils

Castor, Dehydrated—Demand continued on a hand to mouth basis, with consumers mainly interested in nearby delivery. Prices continued without change.

Coconut—Market was quiet and lower. Crude was quoted at 15¼c. per pound, tankcars, f.o.b. Pacific coast, prompt shipment. The New York market was inactive and nominal at 16¾c. per pound, tankcars.

Copra—An easier tone developed and shipments were off $12.50 per ton. Prompt shipments were quoted at $205 per ton. c.i.f. Pacific coast.

Production of copra in Indonesia in 1953 was 20 percent larger than in 1952 according to Foreign Crops and Markets, Department of Agriculture. Measured in terms of Copra Foundation purchases, the 1953 production totaled 454,060 long tons. The monthly output in 1953 averaged 37,840 tons, against 31,620 tons in 1952. Copra exports by the foundation in 1953 amounted to 236,320 tons (revised) or an average of 19,693 tons, monthly compared with total shipments in 1952 of 282,316 tons, about 3,800 tons more than the 1953 average. The Dutch were the biggest buyers taking about 35 percent. Western Germany took 34 percent and the balance went principally to Norway, Japan and France.

Corn—Crude oil was sold at 13½c. per pound, tankcars, f.o.b. mills. Offerings were light. Refined oil was steady at 16¾c. per pound, tankcars, New York delivery.

Cottonseed—Trading in bleachable cottonseed oil futures last week was fairly active. Market was irregular and slightly lower. Most of the trading took place in March delivery, with trade interests on the both sides of the market. Hedging was moderate against crude purchases and the March option increased its premiums over deferred positions. Crude cottonseed oil was easier and slightly lower. In the Southeast the market was nominal at 12⅝c. per pound, tankcars, f.o.b. mills; 12⅜c. to 12½c., Valley, and 12⅜c., Texas. Early in the week trading in crude was quite active for refiners account. Refined salad oil was quoted at 16⅜c. per pound, tankcars, New York delivery. Margarine and shortening in bulk were reduced 1c. per pound. Secretary of the Commerce Department announced that the government will not allow the sale of surplus stocks of farm products to Russia and her satellites, but would consider application for licenses to export commodities behind the Iron Curtain, if they were purchased in the open market.

Department of Agriculture has announced a proposal to make it mandatory at an early date the use of a cotton linters factor in determining the grade of cottonseed sold or offered for sale for crushing purposes within the United States. This supersedes a similar proposal made by the Department in July 1953. The linters factor has been developed to adjust the value of cottonseed for varying amounts of linters on the seed. If the amount of linters is above the average linters factor will increase the grade and with lower than average amounts the linters factor will reduce the grade. As the linters content of cottonseed diminishes below 10 percent, the discounts for linters increase at a greater rate. This is because the per pound value of linters produced, which has a total linters content below 10 percent is less than that produced with a content of more than 10 percent.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended February 11 follow:—

	Sales	Cents per pound High	Low	Close
March	108	15.32	15.10	15.08@15.12
May	78	15.15	14.95	14.95@14.97
July	40	15.05	14.82	14.84S
September	14	14.38	14.20	14.18@14.25
October	7	14.00	13.90	13.95S
December	10	13.93	13.80	13.85S

Total sales, 257 contracts.

Linseed—Quiet demand and lower flaxseed continued to unsettle the market. Raw oil was easy and could have been shaded on firm bids for carlot business. Tankcars were offered at 14c. to 14.2c. per pound, Minneapolis, and 15¼c. to 15.45c., tankcars, New York, depending upon seller. Withdrawals of oil against former contracts were reported as fair.

Minneapolis.—Linseed oil users held to the sidelines the past holiday-shortened week, having covered nearby needs in the preceding two weeks. Buyers evidently lacked confidence in the price structure and were hopeful a cautious waiting policy would bring even better price ideas than have appeared in recent weeks. Very little was done during the week and even small fill-in lots were absent. Crushers held asking prices on raw linseed oil at 14c. a pound, tankcars, f.o.b., Minneapolis, even though bids were under this level. Weakness in the flaxseed market accounted for a cautious attitude on the part of buyers.

Shipments of linseed oil, in pounds, were as follows:—

	1953-54	1952-53
Past week	4,740,000	7,080,000
Since Sept. 1	141,180,000	169,820,000

Flaxseed — Market continued weak. Prices scored further declines.

Minneapolis. — Flaxseed prices suffered a sharp break the past week, dropping as much as 15c. per bushel in extremes. Crushers were unwilling to pay the higher prices for seed—especially in view of the slow market on linseed oil and a slackening in linseed meal business. Bids on No. 1 flaxseed went as low as $3.78½ a bushel, delivered Minneapolis price. Offerings remained narrow and spot cash bookings totaled 19 cars and 3,000 bushels in truck-lots while to-arrive bookings amounted to 25 cars and in excess of 37,000 bushels in varied-sized lots out of store. Actual receipts of seed for all accounts totaled 159 cars, compared to 125 cars the previous week and 61 cars a year ago. Shipments from Minneapolis totaled 35

For Late Market Developments, See Page 4

Price Trends

Advanced

Acid, oleic, 1c. per lb.
soybean fatty, 1c. per lb.
stearic, 1c. per lb.
tallow fatty, 1c. per lb.
Greases, ¼c. per lb.
Oil, corn foots, 95%, ¼c. per lb.
cottonseed foots, 95%, ½c. per lb.
grease, ½c. per lb.
soybean foots, 95%, 1c. per lb.
50%, ¼c. per lb.
Soybean meal, $3 per ton.
Tallow, ¼c. per lb.
Wax, candelilla, crude, 2c. per lb.
ref., 2c. per lb.
Montan, 1c. to 1½c. per lb.
Ouricury, 2c. per lb.

Reduced

Copra, $12.50 per ton.
Cottonseed meal, 50c. per ton.
Linseed meal, 50c. per ton.
Oil, coconut, crude, ½c. per lb.
Cottonseed, crude, ¼c. per lb.
Linseed, 1/5c. per lb.
Soybean, crude, ¼c. per lb.
ref., ¼c. per lb.
Wax, carnauba, crude, No. 3 Ceara, 2c. per lb.
ref., 2c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Feb. 13, 1953
100.33	100.29	103.45	103.12

(*For Current Prices see page* 9)

cars as against 27 cars in the preceding week and 12 cars a year ago.

Receipts and shipments of flaxseed, in bushels, were as follows:—

	Receipts		Shipments	
	1953-54	1952-53	1953-54	1952-53
Past week.	243,250	95,200	40,250	8,500
Since Sept. 1.	13,854,150	11,201,800	2,758,450	1,870,350

Mustard Seed—This market was quiet, but steady. Natural was unchanged at 15¾c. to 16c. per pound, drums, as to quantity.

Oiticica—Refined remained firm, reflecting the scarcity of oil for prompt delivery due to labor strike at a large oil storage terminal. Tankcars were quoted nominally at 16¾c. to 17c. per pound, New York basis. Drums were scarce and reported sold up to 23c. per pound, on spot.

Olive—Buying interest was fairly active for spot and later delivery. Stocks on spot were maintained at $2.35 to $2.45 per gallon, drums, duty paid, according to quality and quantity.

Palm—This market remained steady at the recent advance. Clarified oil was held at 13c. per pound, drums, spot. Tankcars were quoted at 11¾c. per pound, prompt delivery.

Palm Kernel—Trading was inactive. Tankcars were unchanged at 15¾c. per pound, New York, prompt delivery.

Peanut—Trading was slow. Crude oil was sold at 18c. and 18¼c. asked, tankcars, f.o.b. mills. Refined oil was quoted at 22c. per pound, tankcars, New York delivery.

Rapeseed—Refined oil was maintained at 16½c. per pound, tankcars, New York, prompt delivery. Business has been affected by the labor strike at a large oil storage terminal.

Soybean—Crude was irregular and closed slightly lower. Light trading was reported at 12⅜c. per pound, tankcars, f.o.b. Decatur for February and 12¼c., March, while April-June was sold at 12¼c., same basis. Refined salad oil was lower with trading at 15¼c. per pound, tankcars, New York delivery.

Japan will have authorized the purchase of 403,000 tons of soybeans from dollar areas by the end of the fiscal year 1953-54, according to reports from the American Embassy, Tokio. A supplementary allocation for the purchase of 50,000 tons (1,837,160 bushels) from the dollar areas announced December 28 has increased the total to the 403,000 level. Soybeans imports for the calendar 1953 year reached a total of 448,000 metric tons (16,461,010 bushels) compared with 167,000 tons (6,136,130 bushels) during 1952. The increased allocations were made necessary by a short rapeseed and soybean harvest.

Sales and prices of crude soybean oil futures on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended February 11 follow:—

	Sales	Cents per pound High	Low	Close
March	48	12.43	12.20	12.18@12.20
May	96	12.46	12.11	12.11@12.12
July	22	12.27	12.09	12.07@12.12
September	3	11.50	11.50	11.30@11.40
October	2	10.50	10.50	10.25@10.35

Total sales, 111 contracts.

Tung—This market remained firm, reflecting the scarcity of "free oil" due to labor trouble at the leading oil storage terminal in this area. Light sales were reported at 23⅞c. and 24c. per pound, tankcars, for spot delivery. Consuming inquiry was still light. March forward delivery was quoted at 23c. to 23½c., tankcars, providing the strike is settled by delivery date. Domestic oil was quiet and nominal at 24c. per pound, tankcars, f.o.b. mills, with an occasional tank moving at ½c. less. Drums on spot were scarce, and nominal at 26c. to 27c. per pound, as to quantity.

Los Angeles.—Only light and spotty trading was reported during the week. Following were tankcar prices, f.o.b. Los Angeles, unless otherwise designated:—

Castor, No. 1—21c. per pound, l.c.l., drums included; No. 3, 20¾c. per pound, same basis. dehydrated, bodied—25.6c. per pound, same basis.; dehydrated, unbodied, 24.1c. per pound, same basis. Coconut, crude, 15½c. per pound, asked. Corn, crude, 13½c. per pound midwest; refined, 17.40c. per pound. Cottonseed, crude, 13c. per pound, California; refined, 16¼c. per pound. Linseed, 15½c. per pound, asked. Peanut, crude, 18c. per pound, asked, f.o.b. mill; refined, 22c. per pound, asked. Soybean, crude, 12½c. per pound; refined, 16c. per pound. Tung, 24c. per pound, nominal New York.

Fats and Greases

Greases—Trend of prices continued upward, advancing ¼c. per pound. Trading was fairly active, with offerings scarce and in firm hands. Yellow was higher at 7¼c. per pound, tankcars, delivered; house, 7c. and brown, 6⅛c. Choice white grease, not all hog fat, was nominal at 8½c. per pound, tankcars, delivered, with some business early in the week at ¼c. less.

Lard—This market was quiet and steady. Cash lard was unchanged at 17c. per pound, drums, Chicago.

Oleo Oil—Acidless oil was quiet and nominal at 18½c. per pound, drums, prompt delivery. Oleo stearine was firmer at 12c. per pound, drums.

Tallow—Steady demand and limited offerings stiffened this market and trading took place, chiefly for export at an advance of ¼c. per pound. Soapers showed little interest at the higher levels. Bleachable fancy for export was sold at 9¼c. per pound, drums, f.a.s. and extra at 9c. drums and 8½c., bulk, exdock. Bleachable fancy was higher at 8⅛c. per pound, delivered; extra, 7⅞c.; special, 7⅝c., and No. 1, 7⅜c., same basis.

Fish Oils

Cod—Replacements were higher due to foreign buying of Newfoundland oil. This strengthened shipments which were advanced to 9¼c. per pound, drums, exdock. Stocks of tanked oil on spot were held at 9½c. to 10c. per pound, drums. Trading, however, continued light.

Refined—Trading continued slow, chiefly for actual needs. Prices were unchanged. Light pressed oil was offered at 11½c. per pound, tankcars, New York basis, which could have been shaded on a firm bid. Crude menhaden oil was entirely nominal at 7½c. per pound, tank-

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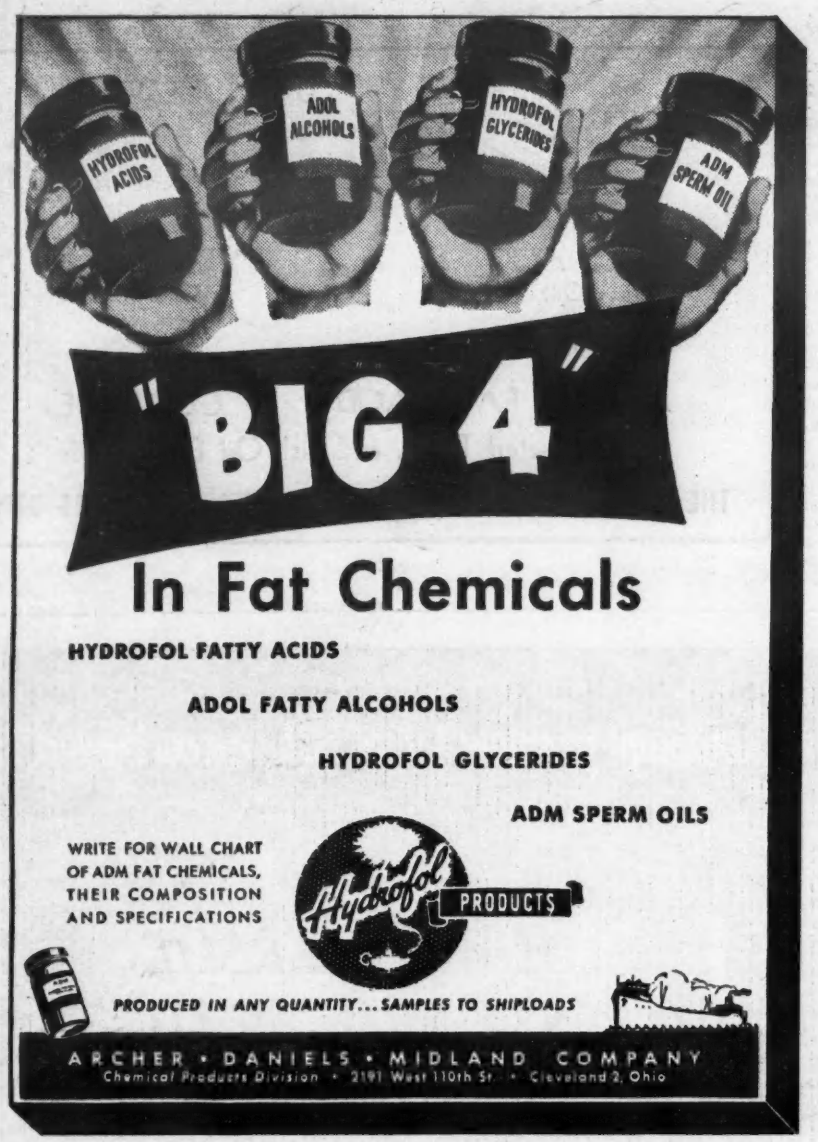
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cars, Atlantic and Gulf coasts. Export inquiry also has slackened and trading was at a standstill.

Los Angeles.—Close to one car of mackerel oil moved at 5c. per pound, f.o.b. San Pedro. Sales of 6,000 gallons of crude tuna oil, reported at 4¾c. per pound, f.o.b. San Pedro. Menhaden quoted 7½c. per pound, Gulf ports, and East Coast. The Canadian herring season ended with oil about depleted, quoted 7½c. per pound, f.o.b. Vancouver, 8½c. U. S. Funds.

Fatty Acids

Higher cost of tallow was finally reflected in oleic, stearic and tallow fatty acids and prices of these materials were lifted 1c. per pound. Oleic single distilled was quoted at 14¼c. per pound, tankcars and double, 16¾c.; stearic acid, single pressed, 14½c. per pound, carlots; double, 15c. and triple, 17¼c.; tallow fatty acid, distilled, 13¼c. per pound, drums, carlots and hydrogenated, 14¼c. Less carlots commanded the usual markup. Soybean fatty acid also was advanced 1c. per pound. Single distilled was quoted at 13¾c. per pound, tankcars and double, 14¼c. Other vegetable fatty acids were firm and quotably unchanged. Consuming demand for all varieties was more active for immediate and later delivery.

Cake and Meal

Cottonseed Meal—Market continued to show signs of slight weakness as demand has dropped off and mills offered meal more freely. Local demand seems to be holding fairly well but interest in shipments into other territories has declined considerably. Forty one percent was offered at $65.50 per ton sacked, Memphis; $71, Alabama; $72, Georgia; $71, South Carolina, and $73, North Carolina mills for immediate and February shipment.

Linseed Meal—Demand less active. Prices unsettled.

Minneapolis.—Dullness in all feedstuffs markets also was reflected in the linseed meal market last week. Prices held generally steady, but there was an easier undertone in the market. Resellers were more active than crushers. Crushers quoted extracted linseed meal at $69 a ton, bulk, carlots, f.o.b., Minneapolis, for February delivery. March was priced at $68 and April at $67 to $67.50. Expeller meal, offered by one crusher, was priced around $74 a ton, bulk, Minneapolis. Shipments tapered off from the high level of recent weeks.

Shipments of linseed meal, in pounds, were as follows:—

	1953-54	1952-53
Past week	9,700,000	8,520,000
Since Sept. 1	335,530,000	315,020,000

Peanut Feed Meal: Supplies of feed meal in the southeast are fairly small—on the other hand, sufficient to take care of the limited demand. Each week the government has released small quantities of peanuts for crushing but the actual future outlook is very indefinite. Forty five percent meal was offered at $75 per ton, sacked Georgia points, and solvent at $72. South Alabama region for February-March shipment.

Soybean Meal: Some improvement in demand for mixed feed has slightly increased trading in soybean meal but small buyers are still on a hand-to-mouth basis. Forty-four percent was quoted at $77 per ton, Decatur for February, $76.50 March and $78.50 April-September same basis. Continued strength in the soybean market has caused processors to operate at a close margin and are maintaining prices.

Waxes

Beeswax—Firmness of crude continued to feature this market. Trading was fairly active in African crude ranging from 52c. to 54c. per pound, spot depending upon quantity. Small lots were sold at the higher figure. Refined grades were in light demand with prices unchanged and steady.

Candelilla—Trading was more active and quotations were advanced. Crude wax was moved at 74c. to 76c. per pound and refined, 77c. to 79c. per pound, spot according to quantity.

Carnauba—Continued lack of consuming demand kept this market unsettled. Prices were lower for No. 3, crude and refined and nominal for other grades. No. 3, Ceara, crude was easier at 82c. to 84c. per pound and refined, 84c. to 86c. per pound, spot as to quantity. No. 1, yellow was nominal at $1.16 to $1.18 per pound and No. 2, $1.14 to $1.16 per pound, depending upon quantity. Reports from Brazil stated that the Brazilian government has increased the price of No. 2 yellow from $1.07 to $1.10 per pound, f.o.b. to counteract the shipments of No. 1 wax listed as No. 2 grading.

Montan—Scarcity of offerings and higher cost of replacements stiffened the local market. Prices were advanced 1c. to 1½c. per pound. Bohemian was higher at 13½c. to 14c. and German, 14c. to 14½c. per pound, spot, as to quantity.

Ouricury—This market was stronger due to scarcity of stocks here and high cost of replacements. Refined was advanced to 82c. to 84c. per pound, spot, according to quantity.

Zein Data Offered by Mellon Inst.

Mellon Institute of Industrial Research of the University of Pittsburgh, Pittsburgh, Pa., has announced the availability of a bulletin entitled "Zein." Requests for free copies should be made to the institute at 4400 Fifth Avenue, Pittsburgh 13.

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1—Oliver 6'x6' Rotary Filter, acid proof.
1—Baker Perkins size 15 JUE, dbl. sigma blades, 100 gal. Mixer.
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1—Link Belt Steel Roto Louvre Dryer, 7½' x 20'.

2—Buflovak double drum dryers, 26" x 36".

1—Stokes Rotary Tablet Machine, Model DDS-2.

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1—De Laval Multi-Matic 17" Stainless Steel Centrifuge.

1—Kent 3 roll Laboratory Paint Mill, 4" x 8".

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LATE-TYPE REBUILT AND GUARANTEED MACHINERY

at Bargain Prices

UNION Rebuilt Machinery
Established 1912

Elgin 24-Head Rotary Vacuum Filler.
Resina LC Automatic Capper.
Capem 1SF Automatic Capper.
Kiefer Rotary Air Cleaner.
F.M.C. Kyler A and Burt Wrap-around Labelers.
Mikro 4TH, 3TH, 2TH, 1SH, Bantam Pulverizers; Schutz O'Neill Mills.
Lehman Upright High-Speed 3-Roll Mill.
Fitzpatrick S.S. "D" Comminuter.
W. & P. type 3500 gal. Steam Jacketed, Double Arm Mixer.
Colton 15 gal. Pony Mixer.
Baker Perkins 150 gal. Unidor S. J. Double Arm Mixer.
Baker Perkins BB, W. & P., Readco Heavy Duty 50, 100, 150 gal. Double Arm Mixer.
F. J. Stokes, J. H. Day, New Era, Hottman Mixers, from 1 to 450 gal., with and without Jackets, Single and Double Arm.
Robinson 100, 400, 600, 1500, 10,000 lbs. Dry Powder Mixers.
Day 650 gal. S. J. Jumbo Mixer.
Colton Rotary Tablet Machine.
Tyler Hum-mer #27 2-Deck Electric Sifter.
Copper, Aluminum and S.S. Steam Jacketed Kettles.
Huhn Steam Tubular and Gas-Fired Rotary Tubular Dryers.
S. & S. Model A and B Transwraps.
Stokes and Smith G1 and HG88 Auger Powder Fillers.
Horix S. S. Rotary Filler.
Filler 4-Head and Hope 6-Head S. S. Piston Filler.
Ceco and Jones Auto. Cartoners.
Knapp No. 429 Carton Sealer.
Ermold and World Semi and Fully Automatic Labelers.
Shriver, Alsop, Sweetland, Sparkler Filters.
Hudson Sharp Campbell Automatic Cellophane Wrapper.
Package Machy. FA, CA2 and FAQ Automatic Wrappers.
Hayssen, Oliver, Scandia and Miller Auto. Wrappers.

THIS IS ONLY A PARTIAL LIST — OVER 5000 MACHINES IN STOCK
Tell Us All Your Machinery Requirements

UNION STANDARD EQUIPMENT CO.
318-322 Lafayette Street New York 12, N. Y.

Send for the NEW FMC BULLETIN

Just *OFF* the Press

NEW and REBUILT EQUIPMENT

LATEST IMPORTANT OFFERINGS FROM THE FIRST MACHINERY CORP. STOCK

Brand NEW S/S Steam Jacketed Kettles and Tanks in all sizes on hand

3705/L7 Stainless Autoclave 5"x12" with agitator.
3705/L5 Nickel Jacketed Autoclave 10"x12"; with agitator.
3549 S/S Hi Pressure Autoclave 3000 PSI; 10"x15" Jacketed, Agitated.
3662 Two Pfaudler S/S Jacketed Stills; 13 gal. and 20 gal.
2879 Stainless Heat Exchanger Shells; 14½"x47" and 24"x71"; closed heads.
3564/E26 Glass Lined 50 gal. Jacketed Reactor; 30"x30"; 50 PSI internal; 75 PSI Jacket.
3160/D7 Doppler 80 gal. Jacketed Reactor; 40" diameter.
3424K4 95 Gal. S/S Reactor 2'x4' with S/S Turbine Type Agitator.
3824S/14 Pfaudler 150 Gal. 3'x3' Glass Lined Reactor; Jacketed 75 PSI; manhole.
3424/K9 470 Gal. Type 316 Stainless Jacketed Tank; 4'x5' with S/S. agit. 5 HP.
3166/D13 500 Gal. Stainless Closed Top Jacketed Reactor; 6' diameter.
3544 Pfaudler 400 Gal. Glass Lined Jacketed Reactor 4'x4'; manhole.
3273/E2 Pfaudler 500 Gal. Glass Lined Jacketed Tank; side agitator.
1052XL Pfaudler 1000 Gal. Glass Lined Reactor; glass cov. anchor agitator.
3853/S1 Type 316 Stainless Steel 1200 Gal. Vert. Tank; 6'x6' plus 9" cone; agitated.
3870/M2 Mojonnier S/S Vac. Pan; 3'x10' with S/S Calandria 30.5 sq. ft.
3799/V1 Lancaster S/S Rotary Reactor; 56"x17'; 300 PSI internal; Jktd. 150 PSI.
3793 Rex S/S Jktd. Heat Exchanger 188 sq. fet.; to 650 degrees; 20' long.
3762/L1 Stainless 450 Gal. Vert Tanks; 56"x44" with cover; S/S agitator.
3762/L7 Stainless 1000 Gal. Hor. Tanks; 66"x72" dished heads; manhole; agitators.
3762/L12 Stainless 2000 Gal. Hor. Tanks; 76"x100"; dished heads; manhole; agitators.
3771/1 Heavy Gauge S/S Tanks 56"x28" dished ends; 16" manhole.
3430 Stainless 2200 gal. Hor. Tank; oval; 69"x49"x16½' cork insulated.
3413 3500 Gal. S/S Horizontal Tank; oval; 6'x4'x22'; insulated.
3799/V2 4000 Gal. Glass Lined Hor. Tank; 7'x18' with manholes; good for vacuum.
3483W 5250 Gal. Glass Lined Hor. Tank; 8'x14'; manhole other openings.
3470 Type 347 Stainless Bubble Cap Column 16 sections; 8⅝"x19' high, complete.
3557 Croll-Reynolds MONEL Vacuum Evaporator; 30"x5'; with steam jet Ejector.
3302 S/S Horizontal Tumbling Batch Mixer; 5'x5'; baffled inside; 3 HP.
3505 Robinson Unique Stainless Powder Mixer with Sifter; 17"x30"x20"; 2 HP.
3748 Brand NEW Stainless Double Ribbon Mixers; 24 cu. ft. and 40 cu. ft.
3773 Brand NEW JACKETED Double Ribbon Mixers in Stainless; 40 cu. ft. 32"x96".
3853/S3 Baker Perkins Ter-Meer Continuous Centrifuge; Type 316 S/S; Size S12; 7½ hp.
3240/M3 Sharples Vapertite Super Centrifuge M84-21-IJY; Bowl 15000 RPM; 3 HP.
3564 Milton Roy Stainless Proportioning Pump; capacity up to 7 GPM.
41752 Waukesha Sanitary Pump Size No. 55; motorized.

STAINLESS STEEL FILLING EQUIPMENT

NEW Straight Line and Rotary Syphon Fillers; all sizes up to Gallons in STAINLESS

3280/W Horix Rotary Fillers in Stainless; Gravity-Vacuum Type; Model HEV 14 Stem.
3284 Food Machinery Corp. 10 pcket M. & S. Fillers with Stainless contacts.
3635 M2 Ayars Stainless Steel Juice Filler Model C Series; 2 spout.
3640 Food Machinery Corp. Hand Pack Filler in Stainless; for several sizes.
Langsenkamp Stainless Pulpers; Chisolm Stainless Juice Extractors.
SPECIAL: Stainless Steel Special Equipment Fabricated to Your Specifications

MIXERS in STOCK

3533/E3—J. H. Day No. 2 Jacketed Double Arm Mixer; 20 gal.; 20"x16"x16".
2948—Ross No. 2 Double Arm Mixer; 16"x12"x16" with 3 H.P. meter.
2337—W.&P. Type 100 Gal. Double Arm Jktd. Mixer; geared both ends.
3677/D1—Baker Perkins Size 17 BB Jktd. Mixer, 43½"x53"x44"; double arm; double geared.
3880—Simpson Intensive Muller Type Mixer; Size "O"; Model "C".
3668/S2—Lancaster Mix Muller No. 3 with Skip Hoist.
3427—Lancaster Mix Muller Model EAG4 complete with all accessories.
2682—J. H. Day Jacketed (egg clipper) Mixer; 20"x 22"x28".
2109—J. H. Day Jacketed Ribbon Mixer; 175 gal., 28"x26"x70".
2986/K6 Savage 200-lb. Marshmallow beater type Mixer.
3689—NEW steel double ribbon Mixers from 24 cu. ft. to 215 cu. ft.
3333—Sprout Waldron 283 cu. ft. Mixers; ribbon type; 5'x10'; center discharge.
3538—Wolf Ribbon Powder Mixer; 24"x32"x94"; with 5 HP meter.
3102—J. H. Day 2,000-lb. Double Ribbon Mixer with top Sifter.
3427/P5—Marquette Paddle Type Mixer; 24"x12' long, arr. for motor drive.
3505—Robinson Unique STAINLESS ribbon Mixer; 8"x24"x26"; sifter; 2 HP meter.
3781—Sprout Waldron STAINLESS Continuous Mixer; 26" dia.x12' long.
3302—STAINLESS tumbling type Mixer; 5'x5' with 3 HP motor.
3350/F4—Fairfield Haines Screw Type Mixer; 40"x 94" with gear reducer.
3748—NEW STAINLESS ribbon Mixers; 24 cu. ft. and 40 cu. ft.
3773—NEW STAINLESS JACKETED ribbon Mixers; 40 cu. ft. 32"x96".
3762/L7—Stainless Steel Mixing Tanks; 66"x72"; S/S agitators; 1,000 gal.
3762/L5—Stainless Steel Mixing Tanks; 78"x108"; S/S agitators; 2,000 gal.
3876/P1—Eppenbach Hi Speed, 7,000 RPM Home Mixer; 1 HP meter.
NLC/M1—Heavy duty Steel Mixing Tanks from 75 gal. to 1,000 gal.
3692/P1—Heavy duty Post Mixers; with 6' shafts and cams.
666/W7—A.T.&M. Rubber Churns, 300 gal., 5'x9'; XPL motors.
3733—J. H. Day 15-gal. and 40-gal. standard Pony Mixers.

FILTERS in STOCK

3705/L1—Shriver 7" Cast Iron P.&F. 17 chambers; closed delivery.
34978/10—Hormann Bronze 12" Press; 14 chambers.
2929 M/2—Scientific Aluminum Disc Filter; 10-16" discs; with pump and motor.
2720 R/1—Ertel Multiple 3 way Filter; 7 sq. 12" chambers; 7 round 12" discs; complete.
3673/L1—Shriver 12" Bronze Pl. & Fr.; 9 chambers; complete with Pump.
3673 L/12—Perrin Bronze 12" 4 eye closed del. Press; 7 chambers; with Pump.
655 R/15—Sperry 18 Jacketed Cast Iron Filter Press; 18 chambers; closed del.
3854A/1—Sperry 18" Aluminum Filter Press 4 eyed; 8 chambers.
SHR—Filter Press FRAMES ONLY 18" in tube 316 Stainless Steel.
3215—Shriver 18" recessed Cast Iron 26 chamber Press; Open Delivery.
3787/E4—Shriver 30" Cast Iron 30 chamber Press; Open Delivery.
3673/L35—Sperry 30" Aluminum Press 34 chambers; hydraulic closing; with Pump.
McAl—Sperry 30" Wood Plate & Frame Press.
3762/L18—Ertel 30 disc Bronze Nickel Plated Filter, complete.
3454—Shriver 30" Cast Iron 30 chamber recessed Press; open delivery.
3294/C4—Shriver 36" Rubber Covered C.I. 34 chamber; 2 eyed; closed delivery.
3103—Sperry 36" Cast Iron 34 chamber Press; 2 eyed; closed delivery.
3673/L41—Sperry 36" Aluminum; 33 chambers; hydraulic closing; pump and motor.
3168—Oliver United Sweetland No. 3 Press (12 leaves) 2" centers.
2535—Oliver United Sweetland Filter No. 7; 41 super leaves; 2" centers.
3317—Bird Young Continuous Rotary Vacuum Filter; 4'x4'; stainless screens.
2729—Oliver Dorres Rotary Vacuum Filter; 6'x3'; with nickel contact parts.
3515—Elmes Rotary Vacuum Filter, 8'x8' with Pump and accessories.
3256/P2—Sparkler DC41A Iron Filter, complete with Pump and Motor.
3795 L4—Sparkler Filter Model 18 D 12 Jacketed. ..
2104—Leval Stana Filter Model SM; 750GPH; acid resistant.
3294/C7—Industrial Vertical Filter; 35"x44"; 17 vertical screens.

VISIT the FMC WAREHOUSE and SHOP
An Entire City Block Filled with Equipment
10th St.—3rd to 4th Aves. Brooklyn, N. Y.

FRED R. FIRSTENBERG, President

FIRST MACHINERY CORP.
157 HUDSON ST. WOrth 6-3456 NEW YORK 13, N. Y.

Monsanto Names Debacher To Overseas Plastics Post

Monsanto Chemical Company, St. Louis, Mo., has appointed Max O. Debacher assistant manager of overseas plastics manufacture for its plastics division. Mr. Debacher joined Fiberloid Corporation in 1937, the year before it was acquired by Monsanto. He has been associated with the research department, serving since 1947 as group leader on "Saflex" polyvinyl butyral. In 1949, Mr. Debacher joined the sales department as technical service representative for "Saflex." He has been assistant sales manager for that product since 1951.

Carbon Dispersions Names Sheridan to Technical Post

Edward J. Sheridan has been appointed director of technical sales and development by Carbon Dispersions, Inc., Newark, N. J. For seven years Mr. Sheridan had been connected with Sun Chemical Corporation where he was superintendent of the A. C. Horn plant and for four years served as general manager of the pigments division.

Previously Mr. Sheridan had worked for International Corporation for fifteen years, specializing in pigment dispersions for inks, paints and lacquers. During the last three years with Interchemical he served as chief chemist at the R. B. H. Dispersions Division, Bound Brook, N. J.

SATISFYING YOU IS OUR BUSINESS

1—Bird 48" S.S. Sus. Style Cent.
1—ATM 36" S.S. Sus. Style Cent.
1—Steel Jack. Reactor 500 Gals.
1—Day 15 Gal. D.A. Jack. Mixer.
1—B.P. 20 Gal. D.A. Jack. Mixer.
2—Vac. Shelf Dryers, 20 shelves, 59"x68", and 40"x43".
2—Pfaudler Reactors, 100 and 500 Gals.
1—Blaw Knox 110 Gal. Autoclave, 2000 psi.
3—Sperry 24" C.I. Presses, 4 Eye—40 Ch. 2" cake.
3—Sperry 24" C.I. Presses 21 and 30 Ch.
1—Shriver 18" C.I. Jack. Filter Press.
1—Sweetland Filter #12—Brze. Leaves.
3—Rotex Sifters, 20"x48" to 40"x120".
3—Bubble Cap Columns, 27"x36" Alum.
1—Buflovak 6' Vac. Crystallizer.
1—Mikro 2TH Pulv. 15 H.P. motor.
1—Keeler 350 H.P. Boiler 160#.
2—Vert. 6,000 Gal. S.S. Tanks.
4—Rubber Lined Tanks, 42,000 Gals.

We buy complete plants or individual items. Send us your lists and inquiries.

The Machinery and Equipment Corp.
533 WEST BROADWAY
New York 12, N. Y. GRamercy 5-6680

QUALITY EQUIPMENT

AGITATOR DRIVES—10 HP, XP 56 RPM.
AUTOCLAVES—2000 gal. jkted. 200 PSI; 75 gal. jktd., agit. 600 PSI#, 150# jkt.
BINS—11,000 cu. ft.
BLENDERS—730, 310, 157, 2.7 cu. ft.
BLOWERS—170 to 74,000 CFM, 0 to 14".
CENTRIFUGES—Steel, 26", 30", 40".
CENTRIFUGES—SS 40", 48".
CLASSIFIER—Duplex, Dorr 4'x20'.
COLUMNS—Steel, 6'x49'3"x⅜" bubble cap.
COMPRESSOR — 15½"x9"x10" 504 CFM 100#.
CONDENSER—1035 sq. ft. 4 pass, steel.
DIGESTER—3900 gal., jktd. & agit.
DRYERS—Steam tube, Louisville 6'x35'.
DRYERS—Rotary, Vacuum, 30"x8'; 5'x30'; 7'x20' (2).
DRYERS—Double Drum, 32"x90"; 36"x84"; 42"x120"; Single Drum 5'x6'.
DRYERS—Conveyor, 2'x28'; 16'x85'; SS 8'x94'.
DUST COLLECTORS—4500 CFM, Steel & SS.
FEEDERS—Vibrating and Belt.
FILTERS — Rotary Vacuum, 11'6"x18'; 11'6"x14'; 8'x14'; 8'x12'; 8'x10'; 3'x4'.
FILTER PRESSES—42", 36", 30".
KETTLES & REACTORS—Stainless Steel, 3000 gal.; 525 gal.; 300 gal.
KETTLES & REACTORS—Steel, 2800 gal.; 1700 gal.; 1000 gal.; Cl 1500 gal.
KILNS—3'x25'; 4'x30'; 5'x30'; 5'x67'; 7'x160'; 8'x125'; 9'x80'.
MILLS—5-roll 50" Raymond; 10'x48" Ball; 6'x8' Ball; 36"x42" Pebble; #1 Raymond Imp; Raymond #402 Bowl; Abbe B with Shaker; Williams #3.
MIXERS—Readco, Champion, Blystone, Ajax.
PACKAGING—Fillers, wrappers, labelers.
TABLET PRESSES—Colton 3DT, 200RP, 2RP.
TANKS—Aluminum, Steel, Sta. Steel, Lead, 500 to 135,000 gallon cap. Pressure, 1300 to 23,000 gal., to 600 PSI.

SPECIALS

Sharples Nozljector, #DH2, SS, complete.
Sharples Super-D-Canter, #PY14, SS, complete.

HEAT & POWER CO., Inc.
70 Pine St. New York 5, N. Y.
HAnover 2-4890
Machinery and Equipment Merchants

AVAILABLE PROCESS EQUIPMENT
SEND FOR BULLETIN 154

Twin Drum Dryer, 42"x120", complete.
Dryer, steam, 24 trucks, now installed.
Autoclaves, 1 gal. to 250 gal. Agtd.
Oliver Filter, 8'x14'.
Dryer, Electric, 12 shelves, 4'x4'.
2—Steam Dryers, 4 shelves, 33x32".
2—Day 1000# Ribbon Mixers.
Pony Mixer, 40 gal., 5 H.P. meter.
Fitzpatrick Comminutor, 5 HP.
2—Mikro Bantam Pulverizers.
Pony Mixer, 15 gal., stainless steel.
Glascote 25 gal. Kettle, Gl. Agtr. JKTD.
Hy-R-Mill, 20 H.P.
S&S Model G Powder-Fillers.
3—Rotary Syphon Fillers, S/S.
Filterpress, C.I., 12"-18"-24"-30".

Special Department On New Mixers, Kettles & Tanks Fabricated To Your Specifications. Engineering Advice Available.

We buy complete plants or single units.
Phone SOuth 8-4451—9264—8782
YOU CAN BANK ON

EQUIPMENT CLEARING HOUSE, INC.
289-10th ST., BKLYN 15, N. Y.

FOR SALE

Dryer: Louisville 14x72", stain. steel.
Filter: Oliver 1x1', type 316 stain. steel.
Hammer Mills: Williams, Mikro, Prater.
Vac. Drum Dryer: Devine 2x4', st. steel.
Pressure Tank 8x40', 125 psi., ASME.
Kettles: 50 gal. s.s. agit., 125 psi.
Rotary Cutter: Ball & Jewell #1½, 20 hp.
Clarifiers: De Laval 84-ST motor dr.
Spray Dryer: Bowen 3,000,000 BTU per hr.
Press: Davenport 3-A, Durimet con.
Mills: Day Harris 18" st. steel.
Mixer: Simpson 36" Intensive.
Powder Mixers: 100 to 2,000 lbs.
Filter Presses: 7" to 24", Sperry, Shriver.
Mixer: Day 3-bbl. single arm, st. steel.
Colloid Mill: Premier 3" st. steel, 7½ hp.
Mill: Hardinge 36"x5' continuous.
Centrifugal: Tolhurst 32", rubber covered.
Evaporator: 60 sq. ft., type 316 stain. steel.

LOEB EQUIPMENT SUPPLY CO.
1925 W. North Ave. Chicago 22, Ill.

CUSTOM REFINING FACILITIES . . .

AVAILABLE
- Complete Distillation Service
- Distillations
- Extractions
- Fractionations

WANTED
- Drum Lots—Tank Cars
- All Types of Crude Mixtures
- By-Products, Residues, Wastes
- Contaminated Solvents

Trufiana CHEMICAL & ENGINEERING CO., Inc.
Box 426, Union, N. J. UNionville 2-7360

NEW AND GOOD-AS-NEW EQUIPMENT

#316 Stainless Steel Tanks, new 100, 300 & 350 gal.
1—Stainless Tank #430 Chrome, vert. 7'x10' deep.
20—Jacketed Kettles—Stainless, Copper, Aluminum.
1—Day Mixer, steam jacketed, 50 gal. Sigma Blade.
1—Robbins Vibrex 3x6 Vibrating Screen, single deck.
1—Copper Evaporator, steam jacketed, 9'1"x3'9".
60—New Pressure Cookers, 10"x10" & 24"x28".
50—Pumps—steam and electric.
1—New Glass Nash Centrifugal Pump, 160 gpm.
1—Jeffrey Vibrating Conveyor 15' lg. 12" wide.
1—Buflovak Jacketed Impregnating Tank 42"x52".
1—4x8 Sturtevant Jaw Crusher.
1—Ribbon type Mixer, steam jacketed.
1—Model 16 Sharples Stainless Steel Centrifuge.
5—New Drum Rollers.
2—Nash Air Compressors, Type AL-623.
1—Manton Gaulin Stainless Homogenizer, 125 gph.
3—French Oil Mill Lard Cookers.
1—Shriver 18" Aluminum Filter 9-plates 8-frames.
1—Rotary Dryer direct fired 54"x30'6".
1—Kennedy-Van Saun Rotary Dryer, 4'x40'.
Davenport Rotary Steam Tube Dryer. 6'x35'.
1—Gruendler Hammer Mill, 10 H.P.—New.
10—New Sharples Oil Purifiers.
1—#316 Stainless Reactor, 265 gals. cap., jacketed.
Abbe Pebble & Tube Mill, 5'x22'—Burr-Stone Lined.
1—Patterson Ball Mill, porcelain lined, 17"x22".
3—Deep Kettles with agitators, 600 gal. cap.
45—Steel Tanks from 100 to 100,000 gals., both Horizontal & Vertical.
2—Large Steam Jacketed Horizontal Mixers.
Robinson Pulverizer #20, with 2 motors 10 HP each.
Readsboro Ribbon Type Mixer, 36"x16"—like new.
6—Steam jacketed Blackburn-Smith Filters.
2—Crystallizers—16' long.
2—500 ton Hydraulic Presses.
3—3,000 gal. Jacketed Kettles with Turbo Agitators.
1—300 gal. Double Arm Mixer—jacketed.

H. LOEB & SON 4643 LANCASTER AVE. PHILADELPHIA 31, PA.

Business Wants and Offers

RATES PER INSERTION—PAYABLE IN ADVANCE (Not Subject to Agency Commission)

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BUSINESS OPPORTUNITIES

Salesman calling on users of Propylene Glycol, Vanillin, Ethyl Vanillin, Benzoate Soda, Essential Oils. Liberal Commission, Side Line. REctor 2-1152. OPD 264.

Chemical Procurement and Disposal Specialists averaged over $1,000 net profits before drawing and taxes monthly over past nine months; active for thirteen years; no inventory; desires additional capital. OPD 269.

Can You Sell Paint? Are you a good paint salesman? Can you open new Dealer Acc'ts? Can you develop a partly worked territory to its real potential sales? If so, we Want You and will pay you well! $10,000 to $15,000 earnings are possible for the men who can do the job right. Established Chicago Mfr. with complete line of modern, top quality products at competitive prices backed by sound merchandising program, has openings for several good men in Mid-West. We want men who have proved their ability to make good. Give detailed resume of experience. Our men know about this ad so you can write in confidence. Write OPD 248.

EQUIPMENT OFFERED

Conical, stainless steel tanks, portable 8" casters type, 304-ss. 16 Ga.—700 gal. cap. On—pipe frames — Steel — Band — Reinforcements. Blue print on request. OPD 263.

High Speed Roller Mills, Medium Speed Roller Mills, Pebble Mills, Pony Mixers, Change Can Mixers. We carry a complete line of rebuilt and guaranteed machinery. Write for list. Irving Barcan Co., 249 Orient Avenue, Jersey City 5, N. J.

Glasslined and Lastiglas lined tanks, one-piece welded. Capacities from 85 barrel to 218 barrel. Bargain. E Keller, 2980 W. Davison, Detroit 6, Michigan. Townsend 9-6200.

Mikro-Pulverizer #2TH, #1 Reeves Drive, J. H. Day C & D mixers with 4 limit magnetic switches, Ross #70H Portable crusher, #1¼ Blower with motor, 48x72x84 steam drier, Ivanhoe oil heater, paint spray. OPD 262.

EQUIPMENT WANTED

Chemical Equipment wanted for defense plant work including autoclave centrifuges, dryers, filters, kettles, mixers, pulverizers and tanks. Also interested in set-up plants, now operating or idle. Give full particulars in first letter for consideration. OPD 246.

EQUIPMENT WANTED

Wanted—Send us your list of surplus or idle machinery. Interested in large capacity dry & wet Mixers Rotary and batch Dryers. Pulverizers, all kinds of Jacketed Kettles. Distilling apparatus. Filling and Packaging Units, Stainless steel and non-corrosive Tanks and Vessels. For 36 years we have been buying from single items to complete plants. Consolidated Products Co., Inc., 60 Bloomfield Street, Hoboken, New Jersey. HO 3-325. N. Y. Phone BA 7-0600.

Pilot Plant and full scale chemical plant equipment required for large expansion program. Kettles, columns, heat exchangers, tanks, mixers, dryers, centrifuges, pumps, filters, screens, pulverizers, etc. Stainless Steel alloy equipment preferred. Complete plants given immediate study. OPD 247.

FACILITIES OFFERED

Custom Drum Drying. Facilities include two 90"x30" twin drum Buflovak driers. Equipment ready to operate. Railroad siding and warehouse adjacent to drier room. Mixing facilities available. Your inquiries will receive prompt attention. Anderson Laboratories, Inc., Weston, Michigan.

MATERIALS WANTED

Sell Now! Markets declining. Confidential services offered for disposal of raw material inventories; factory output, over-production; also by-products and residues; equipment. OPD 249.

Don't dispose of surplus inventories without consulting us. Top dollar value given. Interested in Solvents, Resins, Waxes, By-Products, etc. All inquiries given prompt efficient action. Let us hear from you. OPD 252.

PLANTS OFFERED

Long established and operating paint manufacturing company, manufacturing for trade sales and also industrial. Located on railroad. Company located in mid-west. Has probable manufacturing capacity of around 400,000 gallons per year. OPD 268.

POSITIONS WANTED

Purchasing Agent presently employed seeks greater opportunity, responsibility in progressive organization. 17 years buying experience with proven record of accomplishment in chemical and paint industries. Good organizer and administrator. Age 43. Prefer Manhattan —Northern New Jersey Area. OPD 267.

POSITIONS WANTED

Chemist, Organic: M.S. with 6 years diversified research and development experience, including supervisory and administrative duties. Synthetic organics, dye intermediates, pharmaceutical derivatives, organometallics, resins adhesives and plastisols. OPD 259.

Perfumer - Salesman: Eight years experience: perfumer, sales service correspondent; duplicating and developing perfume compounds for industrial reodorization, chemical specialties, cosmetics and soap. Quality control all raw materials. Knowledge flavors, fine chemicals. Nine years direct sales; three years essential oils, aromatics. Graduate chemist. OPD 258.

REPRESENTATION OFFERED

We have two territories open for aggressive brokers familiar with the market for Organic Dry Colors. One is Ohio and Northern New York operating from Cleveland. The other is New England working out of Boston. OPD 266.

REPRESENTATION WANTED

Forming Raw material agency, as distributor and manufacturer's representative to cover industrial New England. A concerted technical sales effort to be made in the field of Paint, Plastics, Rubber, Paper and Leather. In reply, principals only. OPD 265.

Substantial chemical company wtih centrally located offices New York and Philadelphia. Five salesmen each with industrial chemical experience 25 years or more, desires to add 1 or 2 additional chemical items to present well established line. Reply to "Chemical," Atherton and Currier, Inc., 420 Lexington Ave., New York 17, N. Y.

EQUIPMENT OFFERED

Fitzmill, Model D-S.S.-5 H.P.; S.S. Kettle, 150 Gal.-90# jacket; Kyler Labeler, Model A; Day Blender, D-10-S.S.-Jacketed, Motorized; Mikro Pulverizers, #1-SH, #2-DH, Motorized. Arthur Process, 135 B'way, N. Y. C. 6. BArclay 7-7026.

MATERIALS OFFERED

Drums for Sale. Approx. 100,000 55 gallon, 16 gauge Bung drums, ICC 5 B specifications. In very good condition. Offered subject to prior sale. Reply. OPD 270.

POSITIONS OFFERED

Long established distributor of heavy chemicals has an opening for salesman in Northern New Jersey. Give full particulars and salary. Information held confidential. OPD 272.

POSITIONS WANTED

Administrative Job—Long experience in purchasing, personnel, inventory, finances, office management, sales, manufacturing, warehousing, etc. Entirely capable of running a business. Willing to invest if necessary. Willing to relocate. OPD 273.

Devoe & Raynolds Fills Pitts. Post

Devoe & Raynolds Company, New York, has named James H. Rodenbush to the newly-created post of branch manager in Pittsburgh, Pa. For the past two years Mr. Rodenbush had had a Devoe dealer territory in Pittsburgh.

Epoxy Plasticizer Item Developed by Pitts. Coke

A new epoxy plasticizer, "Pittsburgh PX-800 Epoxy," which reportedly can improve the stability and permanence of vinyl formulations, is being offered by Pittsburgh Coke & Chemical Company, Pittsburgh, Pa., according to Henry Avery, manager of the company's plasticizer division.

The product is a highly compatible polymeric type plasticizer, recommended by Pittsburgh Coke for use with Vinyl resins and synthetic rubbers. It offers definite advantages over ordinary plasticizers in permanence and volatility and, being of the epoxy type, it also has the advantage of serving in vinyl compounds as a stabilizer to both heat and light. Its use can reduce the amount of metallic stabilizer that would ordinarily be required, the producer said.

Minn. Mining Reports Development Of New Electrical Insulation Resin

A new epoxy-type electrical insulation resin with a useable life of from three to five days before setting up has been introduced by Minnesota Mining & Manufacturing Company, St. Paul, Minn. Called "Scotchcast" electrical insulation resin No. 3, it is said to mark a significant advance over epoxy resins previously on the market since most such resins to date have been useable only an hour or two before setting up.

Sulphur Offshore Leasing

—Continued from page 3

retary may authorize the subsurface storage of oil or gas in the lands of the outer continental shelf, whether or not produced from the outer continental shelf. Such authorization will provide for the payment of a storage fee or royalty. Any lease of an area used for the storage of oil or gas would not expire during the period of such storage or so long as oil or gas is being produced in paying quantities.

All sulphur leases would be issued for a term of ten years and so long thereafter as sulphur may be produced from the leased area in paying quantities or drilling, well reworking, plant construction, or other operations for the production of sulphur are conducted thereon. Oil and gas leases would be for a term of five years and so long as oil or gas may be produced in paying quantities. The terms of other mineral leases would be prescribed by the secretary at the time of offering the leases.

Royalties are to be at the rate specified in the lease, but in no event shall the royalty on oil and gas be less than 12½ percent, nor on sulphur less than 5 percent.

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ODM Alters Tax Rules

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plastic products for military use. The firm was authorized to depreciate 70 percent of the cost at the accelerated rate.

Shawinigan Resins Corporation, Springfield, Mass., was issued a certificate covering a project costing $407,575 for production of polyvinyl butryal resin. Fifty percent of the cost was eligible for accelerated depreciation.

The certificates were among fifty-four projects approved for rapid tax amortization by the agency during the period January 14 to 27. These projects had an investment value of $91,229,378 and brought the total value of all projects approved in the mobilization program to $29,245,465,000, of which 60 percent or $17,574,410,000 can be depreciated at the accelerated rate.

Nickel Supply Increase

—Continued from page 3

sign of the expanded facilities and their construction. For the selection of the subcontractors, standards have been established to cope with the special problems to be found in an undertaking in a foreign country.

To this end, H. C. Wildner, president of Nickel Processing and an officer of National Lead, has assured GSA that the qualifications of the subcontractors will include their past experience in and present facilities for the performance of work in Cuba.

"The rehabilitation and operation of Nicaro," Mr. Mansure pointed out in explanation, "has had splendid cooperation in Cuba from the government and the people. In a very real sense, they are in partnership with us in an operation which is based upon Cuban resources in nickel and other metals. We wish to maintain in that partnership the same spirit of friendship and cooperation."

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